Han-Jun Kim

List of Publications by Year
in descending order

213 papers	12,652 citations	31976 53 h-index	28297 105 g-index
224 all docs	224 docs citations	224 times ranked	14991 citing authors

#	Article	IF	Citations
1	A 3D bioprinting system to produce human-scale tissue constructs with structural integrity. Nature Biotechnology, 2016, 34, 312-319.	17.5	2,078
2	Precisely printable and biocompatible silk fibroin bioink for digital light processing 3D printing. Nature Communications, 2018, 9, 1620.	12.8	520
3	Biofabrication strategies for 3D in vitro models and regenerative medicine. Nature Reviews Materials, 2018, 3, 21-37.	48.7	502
4	Multi-tissue interactions in an integrated three-tissue organ-on-a-chip platform. Scientific Reports, 2017, 7, 8837.	3.3	407
5	A hydrogel bioink toolkit for mimicking native tissue biochemical and mechanical properties in bioprinted tissue constructs. Acta Biomaterialia, 2015, 25, 24-34.	8.3	358
6	Development of a composite vascular scaffolding system that withstands physiological vascular conditions. Biomaterials, 2008, 29, 2891-2898.	11.4	321
7	Bioprinting technology and its applications. European Journal of Cardio-thoracic Surgery, 2014, 46, 342-348.	1.4	271
8	In vitro evaluation of electrospun nanofiber scaffolds for vascular graft application. Journal of Biomedical Materials Research - Part A, 2007, 83A, 999-1008.	4.0	239
9	3D bioprinted functional and contractile cardiac tissue constructs. Acta Biomaterialia, 2018, 70, 48-56.	8.3	227
10	The use of thermal treatments to enhance the mechanical properties of electrospun poly(É›-caprolactone) scaffolds. Biomaterials, 2008, 29, 1422-1430.	11.4	209
11	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. Acta Biomaterialia, 2016, 40, 182-191.	8.3	175
12	3D Bioprinted Human Skeletal Muscle Constructs for Muscle Function Restoration. Scientific Reports, 2018, 8, 12307.	3.3	166
13	Electrospun chitosan nanofibers with controlled levels of silver nanoparticles. Preparation, characterization and antibacterial activity. Carbohydrate Polymers, 2014, 111, 530-537.	10.2	164
14	A Photoâ€Crosslinkable Kidney ECMâ€Derived Bioink Accelerates Renal Tissue Formation. Advanced Healthcare Materials, 2019, 8, e1800992.	7.6	162
15	Individual cell-only bioink and photocurable supporting medium for 3D printing and generation of engineered tissues with complex geometries. Materials Horizons, 2019, 6, 1625-1631.	12.2	161
16	Roomâ€Temperatureâ€Formed PEDOT:PSS Hydrogels Enable Injectable, Soft, and Healable Organic Bioelectronics. Advanced Materials, 2020, 32, e1904752.	21.0	158
17	The effect of gold nanoparticle size on osteogenic differentiation of adipose-derived stem cells. Journal of Colloid and Interface Science, 2015, 438, 68-76.	9.4	154
18	Three-dimensional printing of metals for biomedical applications. Materials Today Bio, 2019, 3, 100024.	5.5	150

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19	Neural cell integration into 3D bioprinted skeletal muscle constructs accelerates restoration of muscle function. Nature Communications, 2020, 11, 1025.	12.8	130
20	Engineered small diameter vascular grafts by combining cell sheet engineering and electrospinning technology. Acta Biomaterialia, 2015, 16, 14-22.	8.3	121
21	Efficient myotube formation in 3D bioprinted tissue construct by biochemical and topographical cues. Biomaterials, 2020, 230, 119632.	11.4	120
22	Bioactive cell-derived matrices combined with polymer mesh scaffold for osteogenesis and bone healing. Biomaterials, 2015, 50, 75-86.	11.4	119
23	Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables. Advanced Functional Materials, 2020, 30, 2003601.	14.9	112
24	Organâ€onâ€aâ€Chip for Cancer and Immune Organs Modeling. Advanced Healthcare Materials, 2019, 8, e1801363.	7.6	111
25	A novel tissue-engineered trachea with a mechanical behavior similarÂto native trachea. Biomaterials, 2015, 62, 106-115.	11.4	110
26	Inhibition of Osteoclast Differentiation by Gold Nanoparticles Functionalized with Cyclodextrin Curcumin Complexes. ACS Nano, 2014, 8, 12049-12062.	14.6	109
27	Physical and Chemical Factors Influencing the Printability of Hydrogel-based Extrusion Bioinks. Chemical Reviews, 2020, 120, 10834-10886.	47.7	107
28	Characterization and preparation of bio-tubular scaffolds for fabricating artificial vascular grafts by combining electrospinning and a 3D printing system. Physical Chemistry Chemical Physics, 2015, 17, 2996-2999.	2.8	104
29	Gelatin Methacryloyl Microneedle Patches for Minimally Invasive Extraction of Skin Interstitial Fluid. Small, 2020, 16, e1905910.	10.0	104
30	Platelet-rich plasma loaded hydrogel scaffold enhances chondrogenic differentiation and maturation with up-regulation of CB1 and CB2. Journal of Controlled Release, 2012, 159, 332-337.	9.9	102
31	Regenerative Therapies for Spinal Cord Injury. Tissue Engineering - Part B: Reviews, 2019, 25, 471-491.	4.8	100
32	In vitro evaluation of a poly(lactide-co-glycolide)â€“collagen composite scaffold for bone regeneration. Biomaterials, 2006, 27, 3466-3472.	11.4	95
33	Electrospun vascular scaffold for cellularized small diameter blood vessels: A preclinical large animal study. Acta Biomaterialia, 2017, 59, 58-67.	8.3	91
34	Biodegradable Î²â€Cyclodextrin Conjugated Gelatin Methacryloyl Microneedle for Delivery of Waterâ€Insoluble Drug. Advanced Healthcare Materials, 2020, 9, e2000527.	7.6	91
35	A Patch of Detachable Hybrid Microneedle Depot for Localized Delivery of Mesenchymal Stem Cells in Regeneration Therapy. Advanced Functional Materials, 2020, 30, 2000086.	14.9	91
36	Osteogenic/Angiogenic Dual Growth Factor Delivery Microcapsules for Regeneration of Vascularized Bone Tissue. Advanced Healthcare Materials, 2015, 4, 1982-1992.	7.6	88

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37	Titanium dental implants surface-immobilized with gold nanoparticles as osteoinductive agents for rapid osseointegration. Journal of Colloid and Interface Science, 2016, 469, 129-137.	9.4	87
38	Antiâ€bacterial and wound healingâ€promoting effects of zinc ferrite nanoparticles. Journal of Nanobiotechnology, 2021, 19, 38.	9.1	87
39	A photo-crosslinkable cartilage-derived extracellular matrix bioink for auricular cartilage tissue engineering. Acta Biomaterialia, 2021, 121, 193-203.	8.3	81
40	Non-transdermal microneedles for advanced drug delivery. Advanced Drug Delivery Reviews, 2020, 165-166, 41-59.	13.7	80
41	Bioprinted Skin Recapitulates Normal Collagen Remodeling in Full-Thickness Wounds. Tissue Engineering - Part A, 2020, 26, 512-526.	3.1	79
42	In situgold nanoparticle growth on polydopamine-coated 3D-printed scaffolds improves osteogenic differentiation for bone tissue engineering applications:in vitroandin vivostudies. Nanoscale, 2018, 10, 15447-15453.	5.6	72
43	Multifunctional hydrogel coatings on the surface of neural cuff electrode for improving electrode-nerve tissue interfaces. Acta Biomaterialia, 2016, 39, 25-33.	8.3	71
44	In situ regeneration of skeletal muscle tissue through host cell recruitment. Acta Biomaterialia, 2014, 10, 4332-4339.	8.3	68
45	Flexible patch with printable and antibacterial conductive hydrogel electrodes for accelerated wound healing. Biomaterials, 2022, 285, 121479.	11.4	68
46	Inhibition of Osteoclast Differentiation and Bone Resorption by Bisphosphonate-conjugated Gold Nanoparticles. Scientific Reports, 2016, 6, 27336.	3.3	67
47	Mesenchymal cells condensation-inducible mesh scaffolds for cartilage tissue engineering. Biomaterials, 2016, 85, 18-29.	11.4	64
48	Flexible and Highly Biocompatible Nanofiber-Based Electrodes for Neural Surface Interfacing. ACS Nano, 2017, 11, 2961-2971.	14.6	62
49	Engineered Cartilage Covered Ear Implants for Auricular Cartilage Reconstruction. Biomacromolecules, 2011, 12, 306-313.	5.4	58
50	3D printed cell-laden collagen and hybrid scaffolds for in vivo articular cartilage tissue regeneration. Journal of Industrial and Engineering Chemistry, 2018, 66, 343-355.	5.8	58
51	Time-sequential modulation in expression of growth factors from platelet-rich plasma (PRP) on the chondrocyte cultures. Molecular and Cellular Biochemistry, 2012, 361, 9-17.	3.1	57
52	Injectable hydrogel composite containing modified gold nanoparticles: implication in bone tissue regeneration. International Journal of Nanomedicine, 2018, Volume 13, 7019-7031.	6.7	57
53	Biodegradable microneedle patch for transdermal gene delivery. Nanoscale, 2020, 12, 16724-16729.	5.6	57
54	3D bioprinted biomask for facial skin reconstruction. Bioprinting, 2018, 10, e00028.	5.8	56

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55	Biofabrication of endothelial cell, dermal fibroblast, and multilayered keratinocyte layers for skin tissue engineering. Biofabrication, 2021, 13, 035030.	7.1	54
56	Host Cell Mobilization forIn SituTissue Regeneration. Rejuvenation Research, 2008, 11, 747-756.	1.8	53
57	Vascular endothelial growth factor immobilized on mussel-inspired three-dimensional bilayered scaffold for artificial vascular graft application: In vitro and in vivo evaluations. Journal of Colloid and Interface Science, 2019, 537, 333-344.	9.4	51
58	Three-dimensional cell-based bioprinting for soft tissue regeneration. Tissue Engineering and Regenerative Medicine, 2016, 13, 647-662.	3.7	50
59	Novel 3D printed alginateâ€“BFP1 hybrid scaffolds for enhanced bone regeneration. Journal of Industrial and Engineering Chemistry, 2017, 45, 61-67.	5.8	50
60	Preparation of antibacterial chitosan membranes containing silver nanoparticles for dental barrier membrane applications. Journal of Industrial and Engineering Chemistry, 2018, 66, 196-202.	5.8	50
61	A Human Liverâ€onâ€aâ€Chip Platform for Modeling Nonalcoholic Fatty Liver Disease. Advanced Biology, 2019, 3, e1900104.	3.0	50
62	Combinations of photoinitiator and UV absorber for cell-based digital light processing (DLP) bioprinting. Biofabrication, 2021, 13, 034103.	7.1	50
63	Jammed Microâ€Flake Hydrogel for Fourâ€Dimensional Living Cell Bioprinting. Advanced Materials, 2022, 34, e2109394.	21.0	49
64	Laponiteâ€Based Nanomaterials for Drug Delivery. Advanced Healthcare Materials, 2022, 11, e2102054.	7.6	48
65	Labâ€onâ€aâ€Contact Lens: Recent Advances and Future Opportunities in Diagnostics and Therapeutics. Advanced Materials, 2022, 34, e2108389.	21.0	48
66	Injectable biodegradable gelatin-methacrylate/Î²â€tricalcium phosphate composite for the repair of bone defects. Chemical Engineering Journal, 2019, 365, 30-39.	12.7	47
67	Chitosan/Polyurethane Blended Fiber Sheets Containing Silver Sulfadiazine for Use as an Antimicrobial Wound Dressing. Journal of Nanoscience and Nanotechnology, 2014, 14, 7488-7494.	0.9	46
68	Effect of Hierarchical Scaffold Consisting of Aligned dECM Nanofibers and Poly(lactide-co-glycolide) Struts on the Orientation and Maturation of Human Muscle Progenitor Cells. ACS Applied Materials & Interfaces, 2019, 11, 39449-39458.	8.0	46
69	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. Carbon, 2020, 168, 264-277.	10.3	46
70	4D biofabrication via instantly generated graded hydrogel scaffolds. Bioactive Materials, 2022, 7, 324-332.	15.6	45
71	Recent developments in mussel-inspired materials for biomedical applications. Biomaterials Science, 2021, 9, 6653-6672.	5.4	42
72	Combinatorial screening of biochemical and physical signals for phenotypic regulation of stem cellâ€“based cartilage tissue engineering. Science Advances, 2020, 6, eaaz5913.	10.3	42

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73	Decellularized Skin Extracellular Matrix (dsECM) Improves the Physical and Biological Properties of Fibrinogen Hydrogel for Skin Bioprinting Applications. Nanomaterials, 2020, 10, 1484.	4.1	41
74	NIR fluorescence for monitoring in vivo scaffold degradation along with stem cell tracking in bone tissue engineering. Biomaterials, 2020, 258, 120267.	11.4	40
75	3D Bioprinted Highly Elastic Hybrid Constructs for Advanced Fibrocartilaginous Tissue Regeneration. Chemistry of Materials, 2020, 32, 8733-8746.	6.7	40
76	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. Materials Science and Engineering C, 2019, 100, 949-958.	7.3	39
77	A novel decellularized skeletal muscle-derived ECM scaffolding system for in situ muscle regeneration. Methods, 2020, 171, 77-85.	3.8	39
78	Induction of Fourâ€Đimensional Spatiotemporal Geometric Transformations in High Cell Density Tissues via Shapeâ€Changing Hydrogels. Advanced Functional Materials, 2021, 31, 2010104.	14.9	39
79	Local BMP-7 release from a PLGA scaffolding-matrix for the repair of osteochondral defects in rabbits. Journal of Controlled Release, 2012, 162, 485-491.	9.9	38
80	Use of Baicalin-Conjugated Gold Nanoparticles for Apoptotic Induction of Breast Cancer Cells. Nanoscale Research Letters, 2016, 11, 381.	5.7	38
81	Characterization of nerve-cuff electrode interface for biocompatible and chronic stimulating application. Sensors and Actuators B: Chemical, 2016, 237, 924-934.	7.8	38
82	The Role of the Microenvironment in Controlling the Fate of Bioprinted Stem Cells. Chemical Reviews, 2020, 120, 11056-11092.	47.7	37
83	Intra-articular delivery of synovium-resident mesenchymal stem cells via BMP-7-loaded fibrous PLGA scaffolds for cartilage repair. Journal of Controlled Release, 2019, 302, 169-180.	9.9	36
84	Development of a three-dimensionally printed scaffold grafted with bone forming peptide-1 for enhanced bone regeneration with in vitro and in vivo evaluations. Journal of Colloid and Interface Science, 2019, 539, 468-480.	9.4	36
85	The Influence of Printing Parameters and Cell Density on Bioink Printing Outcomes. Tissue Engineering - Part A, 2020, 26, 1349-1358.	3.1	36
86	Serially pH-Modulated Hydrogels Based on Boronate Ester and Polydopamine Linkages for Local Cancer Therapy. ACS Applied Materials & Interfaces, 2021, 13, 2189-2203.	8.0	36
87	Poly(lactide-co-glycolide) nanofibrous scaffolds chemically coated with gold-nanoparticles as osteoinductive agents for osteogenesis. Applied Surface Science, 2018, 432, 300-307.	6.1	35
88	Macrophage cell tracking PET imaging using mesoporous silica nanoparticles via in vivo bioorthogonal F-18 labeling. Biomaterials, 2019, 199, 32-39.	11.4	34
89	State of the art in integrated biosensors for organ-on-a-chip applications. Current Opinion in Biomedical Engineering, 2021, 19, 100309.	3.4	34
90	Vitamin D-conjugated gold nanoparticles as functional carriers to enhancing osteogenic differentiation. Science and Technology of Advanced Materials, 2019, 20, 826-836.	6.1	33

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91	Self-aligned myofibers in 3D bioprinted extracellular matrix-based construct accelerate skeletal muscle function restoration. Applied Physics Reviews, 2021, 8, 021405.	11.3	33
92	Bone-protecting effect of Rubus coreanus by dual regulation of osteoblasts and osteoclasts. Menopause, 2008, 15, 676-683.	2.0	32
93	Biofunctionalized titanium with anti-fouling resistance by grafting thermo-responsive polymer brushes for the prevention of peri-implantitis. Journal of Materials Chemistry B, 2015, 3, 5161-5165.	5.8	32
94	Most simple preparation of an inkjet printing of silver nanoparticles on fibrous membrane for water purification: Technological and commercial application. Journal of Industrial and Engineering Chemistry, 2017, 46, 273-278.	5.8	32
95	Thrombolytic Agents: Nanocarriers in Controlled Release. Small, 2020, 16, e2001647.	10.0	32
96	Platelet-Rich Plasma Increases the Levels of Catabolic Molecules and Cellular Dedifferentiation in the Meniscus of a Rabbit Model. International Journal of Molecular Sciences, 2016, 17, 120.	4.1	30
97	In Vitro Human Liver Model of Nonalcoholic Steatohepatitis by Coculturing Hepatocytes, Endothelial Cells, and Kupffer Cells. Advanced Healthcare Materials, 2019, 8, e1901379.	7.6	30
98	Cancerâ€onâ€aâ€Chip for Modeling Immune Checkpoint Inhibitor and Tumor Interactions. Small, 2021, 17, e2004282.	10.0	30
99	Generation of functionalized polymer nanolayer on implant surface via initiated chemical vapor deposition (iCVD). Journal of Colloid and Interface Science, 2015, 439, 34-41.	9.4	29
100	Polypseudorotaxane and polydopamine linkage-based hyaluronic acid hydrogel network with a single syringe injection for sustained drug delivery. Carbohydrate Polymers, 2021, 266, 118104.	10.2	29
101	Comparative Characteristics of Porous Bioceramics for an Osteogenic Response In Vitro and In Vivo. PLoS ONE, 2013, 8, e84272.	2.5	28
102	The effect of 3D printing on the morphological and mechanical properties of polycaprolactone filament and scaffold. Polymers for Advanced Technologies, 2020, 31, 1038-1046.	3.2	28
103	Expression of neurotrophic factors in injured spinal cord after transplantation of human-umbilical cord blood stem cells in rats. Journal of Veterinary Science, 2016, 17, 97.	1.3	27
104	Recent Advances in Bioinspired Hydrogels: Materials, Devices, and Biosignal Computing. ACS Biomaterials Science and Engineering, 2023, 9, 2048-2069.	5.2	27
105	Synthetic Extracellular Microenvironment for Modulating Stem Cell Behaviors. Biomarker Insights, 2015, 10s1, BMI.S20057.	2.5	26
106	In Situ Tissue Regeneration of Renal Tissue Induced by Collagen Hydrogel Injection. Stem Cells Translational Medicine, 2018, 7, 241-250.	3.3	26
107	Neuroprotective effects of hydrogen inhalation in an experimental rat intracerebral hemorrhage model. Brain Research Bulletin, 2018, 142, 122-128.	3.0	26
108	Reno-protection of Urine-derived Stem Cells in A Chronic Kidney Disease Rat Model Induced by Renal Ischemia and Nephrotoxicity. International Journal of Biological Sciences, 2020, 16, 435-446.	6.4	26

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109	Engineering a naturally derived hemostatic sealant for sealing internal organs. Materials Today Bio, 2022, 13, 100199.	5.5	26
110	Plateletâ€rich plasma loaded in situâ€formed hydrogel enhances hyaline cartilage regeneration by CB1 upregulation. Journal of Biomedical Materials Research - Part A, 2012, 100A, 3099-3107.	4.0	25
111	Mechanical Cues Regulating Proangiogenic Potential of Human Mesenchymal Stem Cells through YAPâ€Mediated Mechanosensing. Small, 2020, 16, e2001837.	10.0	25
112	Synthesis of Injectable Shearâ€Thinning Biomaterials of Various Compositions of Gelatin and Synthetic Silicate Nanoplatelet. Biotechnology Journal, 2020, 15, e1900456.	3.5	25
113	Monopotassium phosphate-reinforced in situ forming injectable hyaluronic acid hydrogels for subcutaneous injection. International Journal of Biological Macromolecules, 2020, 163, 2134-2144.	7.5	24
114	One-Step Fabrication of AgNPs Embedded Hybrid Dual Nanofibrous Oral Wound Dressings. Journal of Biomedical Nanotechnology, 2016, 12, 2041-2050.	1.1	23
115	Nanocomposite Hydrogel with Tantalum Microparticles for Rapid Endovascular Hemostasis. Advanced Science, 2021, 8, 2003327.	11.2	23
116	Dexamethasone loaded bilayered 3D tubular scaffold reduces restenosis at the anastomotic site of tracheal replacement: in vitro and in vivo assessments. Nanoscale, 2020, 12, 4846-4858.	5.6	23
117	Coâ€Electrospun Silk Fibroin and Gelatin Methacryloyl Sheet Seeded with Mesenchymal Stem Cells for Tendon Regeneration. Small, 2022, 18, e2107714.	10.0	23
118	Nanoemulsion Vehicles as Carriers for Follicular Delivery of Luteolin. ACS Biomaterials Science and Engineering, 2018, 4, 1723-1729.	5.2	22
119	Segmental tracheal reconstruction by 3D-printed scaffold: Pivotal role of asymmetrically porous membrane. Laryngoscope, 2016, 126, E304-E309.	2.0	21
120	Anti-neuroinflammatory gold nanocomplex loading ursodeoxycholic acid following spinal cord injury. Chemical Engineering Journal, 2019, 375, 122088.	12.7	21
121	Direct Injection of Hydrogels Embedding Gold Nanoparticles for Local Therapy after Spinal Cord Injury. Biomacromolecules, 2021, 22, 2887-2901.	5.4	21
122	Bioengineered Multicellular Liver Microtissues for Modeling Advanced Hepatic Fibrosis Driven Through Nonâ€Alcoholic Fatty Liver Disease. Small, 2021, 17, e2007425.	10.0	20
123	Comparison of polysaccharides in articular cartilage regeneration associated with chondrogenic and autophagy-related gene expression. International Journal of Biological Macromolecules, 2020, 146, 922-930.	7.5	19
124	Attention2majority: Weak multiple instance learning for regenerative kidney grading on whole slide images. Medical Image Analysis, 2022, 79, 102462.	11.6	19
125	Ultrasound-triggered PLGA microparticle destruction and degradation for controlled delivery of local cytotoxicity and drug release. International Journal of Biological Macromolecules, 2018, 106, 1211-1217.	7.5	18
126	Germinated soy germ with increased soyasaponin Ab improves BMP-2-induced bone formation and protects against in vivo bone loss in osteoporosis. Scientific Reports, 2018, 8, 12970.	3.3	17

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127	Iron sulfate-reinforced hydrogel reactors with glucose deprivation, serial reactive oxygen species generation, ferroptosis induction, and photothermal ablation for cancer therapy. Chemical Engineering Journal, 2022, 438, 135584.	12.7	17
128	Stem cell-laden hydrogel bioink for generation of high resolution and fidelity engineered tissues with complex geometries. Bioactive Materials, 2022, 15, 185-193.	15.6	17
129	3,2[/]-Dihydroxyflavone-Treated Pluripotent Stem Cells Show Enhanced Proliferation, Pluripotency Marker Expression, and Neuroprotective Properties. Cell Transplantation, 2015, 24, 1511-1532.	2.5	16
130	Biofunctionalization of Nerve Interface via Biocompatible Polymerâ€Roughened Pt Black on Cuff Electrode for Chronic Recording. Advanced Healthcare Materials, 2017, 6, 1601022.	7.6	16
131	Fabrication and design of bioactive agent coated, highly-aligned electrospun matrices for nerve tissue engineering: Preparation, characterization and application. Applied Surface Science, 2017, 424, 359-367.	6.1	16
132	Micro and Nanoscale Technologies for Diagnosis of Viral Infections. Small, 2021, 17, e2100692.	10.0	16
133	The use of heparin chemistry to improve dental osteogenesis associated with implants. Carbohydrate Polymers, 2017, 157, 1750-1758.	10.2	15
134	A 3Dâ€printed polycaprolactone/Î²â€tricalcium phosphate mandibular prosthesis: A pilot animal study. Laryngoscope, 2020, 130, 358-366.	2.0	15
135	Combined Effects of Electric Stimulation and Microgrooves in Cardiac Tissueâ€onâ€aâ€Chip for Drug Screening. Small Methods, 2020, 4, 2000438.	8.6	15
136	pH-Responsive doxorubicin delivery using shear-thinning biomaterials for localized melanoma treatment. Nanoscale, 2022, 14, 350-360.	5.6	15
137	Combination of small RNAs for skeletal muscle regeneration. FASEB Journal, 2016, 30, 1198-1206.	0.5	14
138	Multilayered co-electrospun scaffold containing silver sulfadiazine as a prophylactic against osteomyelitis: Characterization and biological in vitro evaluations. Applied Surface Science, 2018, 432, 308-316.	6.1	14
139	Fabrication and characterization of 3<scp>D</scp>â€printed elastic auricular scaffolds: A pilot study. Laryngoscope, 2019, 129, 351-357.	2.0	14
140	Comparison Study of Stem Cell-Derived Extracellular Vesicles for Enhanced Osteogenic Differentiation. Tissue Engineering - Part A, 2021, 27, 1044-1054.	3.1	14
141	Image-Guided Neutron Capture Therapy Using the Gd-DO3A-BTA Complex as a New Combinatorial Treatment Approach. Contrast Media and Molecular Imaging, 2018, 2018, 1-9.	0.8	13
142	In vitro and in vivo assessments of an optimal polyblend composition of polycaprolactone/gelatin nanofibrous scaffolds for Achilles tendon tissue engineering. Journal of Industrial and Engineering Chemistry, 2019, 76, 173-180.	5.8	13
143	Germinated soy germ extract ameliorates obesity through beige fat activation. Food and Function, 2019, 10, 836-848.	4.6	12
144	Effect of Human Amniotic Fluid Stem Cells on Kidney Function in a Model of Chronic Kidney Disease. Tissue Engineering - Part A, 2019, 25, 1493-1503.	3.1	12

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145	Strategy to inhibit effective differentiation of RANKL-induced osteoclasts using vitamin D-conjugated gold nanoparticles. Applied Surface Science, 2020, 527, 146765.	6.1	12
146	Rhodamine Conjugated Gelatin Methacryloyl Nanoparticles for Stable Cell Imaging. ACS Applied Bio Materials, 2020, 3, 6908-6918.	4.6	12
147	Applicability and Safety of in Vitro Skin Expansion Using a Skin Bioreactor: A Clinical Trial. Archives of Plastic Surgery, 2014, 41, 661-667.	0.9	12
148	Facile Preparation of Î²-Cyclodextrin-grafted Chitosan Electrospun Nanofibrous Scaffolds as a Hydrophobic Drug Delivery Vehicle for Tissue Engineering Applications. ACS Omega, 2021, 6, 28307-28315.	3.5	12
149	Primary lymphoma of the uterine horn in a Lhasa Apso dog. Irish Veterinary Journal, 2013, 66, 24.	2.1	11
150	Regulation of Adipogenesis Through Differential Modulation of ROS and Kinase Signaling Pathways by 3,4â€²â€Dihydroxyflavone Treatment. Journal of Cellular Biochemistry, 2017, 118, 1065-1077.	2.6	11
151	Three-dimensional bioprinting for organ bioengineering: promise and pitfalls. Current Opinion in Organ Transplantation, 2018, 23, 649-656.	1.6	11
152	Hypoxia Helps Maintain Nucleus Pulposus Homeostasis by Balancing Autophagy and Apoptosis. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	4.0	11
153	Receptorâ€Level Proximity and Fastening of Ligands Modulates Stem Cell Differentiation. Advanced Functional Materials, 2022, 32, .	14.9	11
154	Preparation of Electrospun Fibrous Scaffold Containing Silver Sulfadiazine for Biomedical Applications. Journal of Nanoscience and Nanotechnology, 2016, 16, 8554-8558.	0.9	10
155	Biological assessments of multifunctional hydrogel-decorated implantable neural cuff electrode for clinical neurology application. Scientific Reports, 2017, 7, 15245.	3.3	10
156	Development of novel photopolymerizable hyaluronic acid/heparin-based hydrogel scaffolds with a controlled release of growth factors for enhanced bone regeneration. Macromolecular Research, 2016, 24, 829-837.	2.4	9
157	Nonâ€invasive in vivo monitoring of transplanted stem cells in <scp>3D</scp>â€bioprinted constructs using nearâ€infrared fluorescent imaging. Bioengineering and Translational Medicine, 2021, 6, e10216.	7.1	9
158	Up-regulation of Metabotropic glutamate receptor 3 (mGluR3) in rat fibrosis and cirrhosis model of persistent hypoxic condition. Molecular and Cellular Biochemistry, 2007, 294, 189-196.	3.1	8
159	Decellularized PLGA-based scaffolds and their osteogenic potential with bone marrow stromal cells. Macromolecular Research, 2011, 19, 1090-1096.	2.4	8
160	Soyasaponin Ab alleviates postmenopausal obesity through browning of white adipose tissue. Journal of Functional Foods, 2019, 57, 453-464.	3.4	8
161	Antibody-Conjugated Electrospun Vascular Scaffolds to Enhance In Situ Endothelialization. ACS Applied Bio Materials, 2020, 3, 4486-4494.	4.6	8
162	Stimulation of cannabinoid receptors by usingRubus coreanusextracts to control osteoporosis in aged male rats. Aging Male, 2015, 18, 124-132.	1.9	7

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163	Automated Image Analysis Methodologies to Compute Bioink Printability. Advanced Engineering Materials, 2021, 23, 2000900.	3.5	7
164	Changes in metabolites with harvest times of seedlings of various Korean oat (Avena sativa L.) cultivars and their neuraminidase inhibitory effects. Food Chemistry, 2022, 373, 131429.	8.2	7
165	Polydopamine-mediated surface modifications of poly l-lactic acid with hydroxyapatite, heparin and bone morphogenetic protein-2 and their effects on osseointegration. Journal of Industrial and Engineering Chemistry, 2018, 67, 244-254.	5.8	6
166	Wearable Tactile Sensors: Gelatin Methacryloylâ€Based Tactile Sensors for Medical Wearables (Adv.) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	14.9	6
167	3D Printing and NIR Fluorescence Imaging Techniques for the Fabrication of Implants. Materials, 2020, 13, 4819.	2.9	6
168	3D macroporous biocomposites with a microfibrous topographical cue enhance new bone formation through activation of the MAPK signaling pathways. Journal of Industrial and Engineering Chemistry, 2021, 104, 478-490.	5.8	6
169	Immediately implantable extracellular matrix-enriched osteoinductive hydrogel-laden 3D-printed scaffold for promoting vascularized bone regeneration in vivo. Materials and Design, 2022, 219, 110801.	7.0	6
170	In vitro skin expansion: Wound healing assessment. Wound Repair and Regeneration, 2017, 25, 398-407.	3.0	5
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