Crossing kingdoms: Using decellularized plants as perfu

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#	Article	IF	Citations
1	Recent advances in smart biotechnology: Hydrogels and nanocarriers for tailored bioactive molecules depot. Advances in Colloid and Interface Science, 2017, 249, 163-180.	7.0	44
2	Advances in microfluidic devices made from thermoplastics used in cell biology and analyses. Biomicrofluidics, 2017, 11, 051502.	1.2	82
3	A PCâ€“PU nanoparticle/PU/decellularized scaffold composite vascular patch: Synergistically optimized overall performance promotes endothelialization. Colloids and Surfaces B: Biointerfaces, 2017, 160, 192-200.	2.5	17
4	Myocardial Tissue Engineering for Regenerative Applications. Current Cardiology Reports, 2017, 19, 78.	1.3	29
5	Bio-Inspired Microdevices that Mimic the Human Vasculature. Micromachines, 2017, 8, 299.	1.4	14
6	Artificial Cardiac Muscle with or without the Use of Scaffolds. BioMed Research International, 2017, 2017, 1-15.	0.9	7
7	Customizing the Shape and Microenvironment Biochemistry of Biocompatible Macroscopic Plant-Derived Cellulose Scaffolds. ACS Biomaterials Science and Engineering, 2018, 4, 3726-3736.	2.6	69
8	Opportunities for applying biomedical production and manufacturing methods to the development of the clean meat industry. Biochemical Engineering Journal, 2018, 132, 161-168.	1.8	96
9	Leaf-templated, microwell-integrated microfluidic chips for high-throughput cell experiments. Biofabrication, 2018, 10, 025008.	3.7	18
10	Update on the main use of biomaterials and techniques associated with tissue engineering. Drug Discovery Today, 2018, 23, 1474-1488.	3.2	39
11	The role of the microenvironment in the biophysics of cancer. Seminars in Cell and Developmental Biology, 2018, 73, 107-114.	2.3	53
12	Strategies for Tissue Engineering Vascularized Cardiac Patches to Treat Myocardial Infarctions. Biological and Medical Physics Series, 2018, , 141-175.	0.3	1
14	Tissue and organ decellularization in regenerative medicine. Biotechnology Progress, 2018, 34, 1494-1505.	1.3	59
15	Natural Sources of Extracellular Matrix for Cardiac Repair. Advances in Experimental Medicine and Biology, 2018, 1098, 115-130.	0.8	10
17	Cellulose-based scaffolds for fluorescence lifetime imaging-assisted tissue engineering. Acta Biomaterialia, 2018, 80, 85-96.	4.1	45
18	A Review of Bio-Processing of Blood Vessels Using Natural and Synthetic Materials. , 2018, , 176-184.		2
19	Advances in Protein-Based Materials: From Origin to Novel Biomaterials. Advances in Experimental Medicine and Biology, 2018, 1078, 161-210.	0.8	30
20	N gene enhances resistance to Chilli veinal mottle virus and hypersensitivity to salt stress in tobacco. Journal of Plant Physiology, 2018, 230, 92-100.	1.6	11

#	Article	IF	Citations
21	Phytochemical Incorporated Drug Delivery Scaffolds for Tissue Regeneration. Regenerative Engineering and Translational Medicine, 2018, 4, 167-176.	1.6	10
22	Recent Advances in Modified Cellulose for Tissue Culture Applications. Molecules, 2018, 23, 654.	1.7	97
23	Nanoporous diopside modulates biocompatibility, degradability and osteogenesis of bioactive scaffolds of gliadin-based composites for new bone formation. International Journal of Nanomedicine, 2018, Volume 13, 3883-3896.	3.3	15
24	Two Methods for Decellularization of Plant Tissues for Tissue Engineering Applications. Journal of Visualized Experiments, 2018, , .	0.2	30
25	Engineering Functional Cardiac Tissues for Regenerative Medicine Applications. Current Cardiology Reports, 2019, 21, 105.	1.3	28
26	Scaffolds for 3D Cell Culture and Cellular Agriculture Applications Derived From Non-animal Sources. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	70
27	Improving the Rate of Translation of Tissue Engineering Products. Advanced Healthcare Materials, 2019, 8, e1900538.	3.9	15
28	Methods to quantify primary plant cell wall mechanics. Journal of Experimental Botany, 2019, 70, 3615-3648.	2.4	51
29	Decellularised baby spinach leaves and their potential use in tissue engineering applications: Studying and promoting neovascularisation. Journal of Biomaterials Applications, 2019, 34, 546-559.	1.2	43
30	Naturally Prefabricated Marine Biomaterials: Isolation and Applications of Flat Chitinous 3D Scaffolds from Ianthella labyrinthus (Demospongiae: Verongiida). International Journal of Molecular Sciences, 2019, 20, 5105.	1.8	40
31	Decellularized Plant Leaves for 3D Cell Culturing. , 2019, , .		5
32	Plants and architecture: the role of biology and biomimetics in materials development for buildings. Intelligent Buildings International, 2019, 11, 178-211.	1.3	15
33	Extracellular Heme Proteins Influence Bovine Myosatellite Cell Proliferation and the Color of Cell-Based Meat. Foods, 2019, 8, 521.	1.9	80
34	Plants and plant-based polymers as scaffolds for tissue engineering. Green Chemistry, 2019, 21, 4839-4867.	4.6	131
35	Mechanically robust cationic cellulose nanofibril 3D scaffolds with tuneable biomimetic porosity for cell culture. Journal of Materials Chemistry B, 2019, 7, 53-64.	2.9	22
36	Scaffolds mimicking the native structure of tissues. , 2019, , 51-71.		1
37	Stable Co-Cultivation of the Moss Physcomitrella patens with Human Cells in vitro as a New Approach to Support Metabolism of Diseased Alzheimer Cells. Journal of Alzheimer's Disease, 2019, 70, 75-89.	1.2	2
38	Possibilities for Engineered Insect Tissue as a Food Source. Frontiers in Sustainable Food Systems, 2019, 3, .	1.8	19

#	Article	IF	Citations
39	Current research trends and challenges in tissue engineering for mending broken hearts. Life Sciences, 2019, 229, 233-250.	2.0	29
40	Dual functional approaches for osteogenesis coupled angiogenesis in bone tissue engineering. Materials Science and Engineering C, 2019, 103, 109761.	3.8	95
41	Cellulose Biomaterials for Tissue Engineering. Frontiers in Bioengineering and Biotechnology, 2019, 7, 45.	2.0	291
42	After 50 Years of Heart Transplants: What Does the Next 50 Years Hold for Cardiovascular Medicine? A Perspective From the International Society for Applied Cardiovascular Biology. Frontiers in Cardiovascular Medicine, 2019, 6, 8.	1.1	1
43	A Facile Strategy for Fabricating Tissue Engineering Scaffolds with Sophisticated Prevascularized Networks for Bulk Tissue Regeneration. Macromolecular Materials and Engineering, 2019, 304, 1800642.	1.7	10
44	Plant-Derived Biomaterials: A Review of 3D Bioprinting and Biomedical Applications. Frontiers in Mechanical Engineering, 2019, 5, .	0.8	77
45	A Review of Decellularized Extracellular Matrix Biomaterials for Regenerative Engineering Applications. Regenerative Engineering and Translational Medicine, 2019, 5, 155-166.	1.6	73
46	Synthesis, characterization, and bioactivity investigation of biomimetic biodegradable PLA scaffold fabricated by fused filament fabrication process. Journal of the Brazilian Society of Mechanical Sciences and Engineering, 2019, 41, 1.	0.8	71
47	Emergence of Three Dimensional Printed Cardiac Tissue: Opportunities and Challenges in Cardiovascular Diseases. Current Cardiology Reviews, 2019, 15, 188-204.	0.6	8
48	Raising the steaks â€•a taste of what's to come. Food Science and Technology, 2019, 33, 50-52.	0.3	1
49	Fabrication of triple-layered vascular grafts composed of silk fibers, polyacrylamide hydrogel, and polyurethane nanofibers with biomimetic mechanical properties. Materials Science and Engineering C, 2019, 98, 241-249.	3.8	67
50	Bioengineering-inspired three-dimensional culture systems: Organoids to create tumor microenvironment. Gene, 2019, 686, 203-212.	1.0	72
51	In Vitro Insect Muscle for Tissue Engineering Applications. ACS Biomaterials Science and Engineering, 2019, 5, 1071-1082.	2.6	28
52	Concise Review: The Current State of Human In Vitro Cardiac Disease Modeling: A Focus on Gene Editing and Tissue Engineering. Stem Cells Translational Medicine, 2019, 8, 66-74.	1.6	27
53	Biomaterializing the promise of cardiac tissue engineering. Biotechnology Advances, 2020, 42, 107353.	6.0	66
54	Decellularized ECM-derived bioinks: Prospects for the future. Methods, 2020, 171, 108-118.	1.9	113
55	Unconventional Tissue Engineering Materials in Disguise. Trends in Biotechnology, 2020, 38, 178-190.	4.9	28
56	Revolution of Perovskite. Materials Horizons, 2020, , .	0.3	10

#	Article	IF	Citations
57	Palm readings: Manicaria saccifera palm fibers are biocompatible textiles with low immunogenicity. Materials Science and Engineering C, 2020, 108, 110484.	3.8	12
58	Marine biomaterials: Biomimetic and pharmacological potential of cultivated Aplysina aerophoba marine demosponge. Materials Science and Engineering C, 2020, 109, 110566.	3.8	53
59	Bioinspired and Biomimetic Design of Multilayered and Multiscale Structures. , 2020, , 3-19.		1
60	Bioinspired Design for Energy Storage Devices. , 2020, , 193-211.		0
61	Bioinspired Underwater Propulsors. , 2020, , 113-139.		6
62	Bioreactivity of decellularized animal, plant, and fungal scaffolds: perspectives for medical applications. Journal of Materials Chemistry B, 2020, 8, 10010-10022.	2.9	21
63	Aquatic Animals Operating at High Reynolds Numbers. , 2020, , 235-270.		1
64	The emerging landscape of nanotheranostic-based diagnosis and therapy for osteoarthritis. Journal of Controlled Release, 2020, 328, 817-833.	4.8	14
65	Bridging the gap between the science of cultured meat and public perceptions. Trends in Food Science and Technology, 2020, 104, 144-152.	7.8	61
67	Bioinspired Design of Dental Functionally Graded Multilayer Structures. , 2020, , 140-166.		0
68	Bionic Organs. , 2020, , 167-192.		1
69	Bioinspired Design of Nanostructures. , 2020, , 212-232.		0
70	Flying of Insects. , 2020, , 271-299.		5
71	Bioinspired Building Envelopes. , 2020, , 343-354.		0
73	Human Cortical Bone as a Structural Material. , 2020, , 20-44.		0
74	Bamboo-Inspired Materials and Structures. , 2020, , 89-110.		5
75	Designing Nature-Inspired Liquid-Repellent Surfaces. , 2020, , 300-319.		1
76	Plant- vs. Bacterial-Derived Cellulose for Wound Healing: A Review. International Journal of Environmental Research and Public Health, 2020, 17, 6803.	1.2	89

#	Article	IF	Citations
77	Biomimetic and Soft Robotics. , 2020, , 320-342.		0
78	Plant-Based Scaffolds Modify Cellular Response to Drug and Radiation Exposure Compared to Standard Cell Culture Models. Frontiers in Bioengineering and Biotechnology, 2020, 8, 932.	2.0	24
79	Bioinspired Design of Multilayered Composites. , 2020, , 45-88.		0
80	Human Cell Modeling for Cardiovascular Diseases. International Journal of Molecular Sciences, 2020, 21, 6388.	1.8	12
81	Fabricating a pre-vascularized large-sized metabolically-supportive scaffold using <i>Brassica oleracea</i> leaf. Journal of Biomaterials Applications, 2021, 36, 165-178.	1.2	11
83	Using decellularized grafted leaves as tissue engineering scaffolds for mammalian cells. In Vitro Cellular and Developmental Biology - Plant, 2020, 56, 765-774.	0.9	16
84	Biomimetics of microducts in three-dimensional bacterial nanocellulose biomaterials for soft tissue regenerative medicine. Cellulose, 2020, 27, 5923-5937.	2.4	2
85	Decellularization and characterization of leek: a potential cellulose-based biomaterial. Cellulose, 2020, 27, 7331-7348.	2.4	29
86	Onion Epithelial Membrane Scaffolds Transfer Corneal Epithelial Layers in Reconstruction Surgery. Advanced Healthcare Materials, 2020, 9, e2000469.	3.9	3
87	Engineering Aligned Skeletal Muscle Tissue Using Decellularized Plant-Derived Scaffolds. ACS Biomaterials Science and Engineering, 2020, 6, 3046-3054.	2.6	58
88	Biomatrices for Heart Regeneration and Cardiac Tissue Modelling In Vitro. Advances in Experimental Medicine and Biology, 2020, 1298, 43-77.	0.8	1
89	Efficient mineralization and osteogenic gene overexpression of mesenchymal stem cells on decellularized spinach leaf scaffold. Gene, 2020, 757, 144852.	1.0	27
90	Plant Tissues as 3D Natural Scaffolds for Adipose, Bone and Tendon Tissue Regeneration. Frontiers in Bioengineering and Biotechnology, 2020, 8, 723.	2.0	60
91	Bioprinting small diameter blood vessel constructs with an endothelial and smooth muscle cell bilayer in a single step. Biofabrication, 2020, 12, 045012.	3.7	73
92	Biofabrication Strategies and Engineered In Vitro Systems for Vascular Mechanobiology. Advanced Healthcare Materials, 2020, 9, e1901255.	3.9	35
93	Decellularized liver as a translucent ex vivo model for vascular embolization evaluation. Biomaterials, 2020, 240, 119855.	5.7	28
94	In Vitro Biocompatibility of Decellularized Cultured Plant Cell-Derived Matrices. ACS Biomaterials Science and Engineering, 2020, 6, 822-832.	2.6	25
95	Ethical issues related to brain organoid research. Brain Research, 2020, 1732, 146653.	1.1	63

#	Article	IF	Citations
96	Beyond natural: synthetic expansions of botanical form and function. New Phytologist, 2020, 227, 295-310.	3.5	23
97	Humanâ€onâ€Leafâ€Chip: A Biomimetic Vascular System Integrated with Chamberâ€Specific Organs. Small, 2020, 16, e2000546.	5.2	38
98	Creation of a contractile biomaterial from a decellularized spinach leaf without ECM protein coating: An in vitro study. Journal of Biomedical Materials Research - Part A, 2020, 108, 2123-2132.	2.1	26
99	Engineered human myocardium with local release of angiogenic proteins improves vascularization and cardiac function in injured rat hearts. Biomaterials, 2020, 251, 120033.	5.7	39
100	Fabrication techniques of biomimetic scaffolds in threeâ€dimensional cell culture: A review. Journal of Cellular Physiology, 2021, 236, 741-762.	2.0	51
101	Decellularization and oxidation process of bamboo stem enhance biodegradation and osteogenic differentiation. Materials Science and Engineering C, 2021, 119, 111500.	3.8	16
102	Vegetable waste scaffolds for 3D-stem cell proliferating systems and low cost biosensors. Talanta, 2021, 223, 121671.	2.9	13
103	Microfluidic Biomaterials. Advanced Healthcare Materials, 2021, 10, e2001028.	3.9	18
104	The importance of plant-derived biomaterials for cardiac tissue engineering. Einstein (Sao Paulo,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 4	0.3	0
105	Trends in Bio-Derived Biomaterials in Tissue Engineering. , 2021, , 163-213.		4
107	MXenes and MXene-based materials for tissue engineering and regenerative medicine: recent advances. Materials Advances, 2021, 2, 2906-2917.	2.6	82
108	Biomaterials in Tissue Engineering and Regenerative Medicine: In Vitro Disease Models and Advances in Gene-Based Therapies. , 2021, , 485-504.		0
109	Plant-Based Scaffolds in Tissue Engineering. ACS Biomaterials Science and Engineering, 2021, 7, 926-938.	2.6	37
110	Green synthesis of Cuminum cyminum silver nanoparticles: Characterizations and cytocompatibility with lapine primary tenocytes. Journal of Biosciences, 2021, 46, 1.	0.5	6
111	Engineering and Assessing Cardiac Tissue Complexity. International Journal of Molecular Sciences, 2021, 22, 1479.	1.8	13
112	Supercritical carbon dioxide decellularization of plant material to generate 3D biocompatible scaffolds. Scientific Reports, 2021, 11, 3643.	1.6	16
113	Cultivating Multidisciplinarity: Manufacturing and Sensing Challenges in Cultured Meat Production. Biology, 2021, 10, 204.	1.3	35
114	Waste to health: A review of waste derived materials for tissue engineering. Journal of Cleaner Production, 2021, 290, 125792.	4.6	38

#	Article	IF	Citations
115	Unconventional biomaterials for cardiovascular tissue engineering. Current Opinion in Biomedical Engineering, 2021, 17, 100263.	1.8	6
116	3D Bioprinted Cardiac Tissues and Devices for Tissue Maturation. Cells Tissues Organs, 2022, , 90-103.	1.3	5
117	Growing phenotype-controlled phononic materials from plant cells scaffolds. Applied Materials Today, 2021, 22, 100934.	2.3	2
118	Application of the Tissue-Engineered Plant Scaffold as a Vascular Patch. ACS Omega, 2021, 6, 11595-11601.	1.6	18
119	Integrating biomaterials and food biopolymers for cultured meat production. Acta Biomaterialia, 2021, 124, 108-129.	4.1	58
120	From a plant secretion to the promising bone grafts: Cryogels of silicon-integrated quince seed mucilage by microwave-assisted solâ€“gel reaction. Journal of Bioscience and Bioengineering, 2021, 131, 420-433.	1.1	11
121	Drawing Inspiration from Developmental Biology for Cardiac Tissue Engineers. Advanced Biology, 2021, 5, 2000190.	1.4	4
123	Decellularized grass as a sustainable scaffold for skeletal muscle tissue engineering. Journal of Biomedical Materials Research - Part A, 2021, 109, 2471-2482.	2.1	28
124	A perfusable vascularized full-thickness skin model for potential topical and systemic applications. Biofabrication, 2021, 13, 035042.	3.7	19
125	Material Perspective on the Structural Design of Artificial Meat. Advanced Sustainable Systems, 2021, 5, 2100017.	2.7	7
126	From deep roots to new blooms: The everâ€growing field of evoâ€“devo across land plants. Evolution & Development, 2021, 23, 119-122.	1.1	0
127	Decellularized spinach: An edible scaffold for laboratory-grown meat. Food Bioscience, 2021, 41, 100986.	2.0	53
128	Cellulose-based biogenic supports, remarkably friendly biomaterials for proteins and biomolecules. Biosensors and Bioelectronics, 2021, 182, 113170.	5.3	22
129	Scaffolds for the manufacture of cultured meat. Critical Reviews in Biotechnology, 2022, 42, 311-323.	5.1	64
130	Natural cellulose-based scaffold for improvement of stem cell osteogenic differentiation. Journal of Drug Delivery Science and Technology, 2021, 63, 102453.	1.4	5
131	Investigating the Viability of Epithelial Cells on Polymer Based Thin-Films. Polymers, 2021, 13, 2311.	2.0	4
132	Current Advances in the Development of Decellularized Plant Extracellular Matrix. Frontiers in Bioengineering and Biotechnology, 2021, 9, 712262.	2.0	14
134	Restoration of Osteogenesis by CRISPR/Cas9 Genome Editing of the Mutated COL1A1 Gene in Osteogenesis Imperfecta. Journal of Clinical Medicine, 2021, 10, 3141.	1.0	17

#	Article	IF	Citations
135	Interplay of reactive oxygen species (ROS) and tissue engineering: a review on clinical aspects of ROS-responsive biomaterials. Journal of Materials Science, 2021, 56, 16790-16823.	1.7	14
136	Cell Sources for Cultivated Meat: Applications and Considerations throughout the Production Workflow. International Journal of Molecular Sciences, 2021, 22, 7513.	1.8	63
137	Recent trends in natural polysaccharide based bioinks for multiscale 3D printing in tissue regeneration: A review. International Journal of Biological Macromolecules, 2021, 183, 564-588.	3.6	63
138	Cardiac mechanostructure: Using mechanics and anisotropy as inspiration for developing epicardial therapies in treating myocardial infarction. Bioactive Materials, 2021, 6, 2198-2220.	8.6	20
139	Democratizing ownership and participation in the 4th Industrial Revolution: challenges and opportunities in cellular agriculture. Agriculture and Human Values, 2021, 38, 943-961.	1.7	49
140	Review: 3D printing hydrogels for the fabrication of soilless cultivation substrates. Applied Materials Today, 2021, 24, 101088.	2.3	15
141	Biomimicked hierarchical 2D and 3D structures from natural templates: applications in cell biology. Biomedical Materials (Bristol), 2021, 16, 062001.	1.7	7
142	Decompartmentalisation as a simple color manipulation of plant-based marbling meat alternatives. Biomaterials, 2021, 277, 121107.	5.7	23
143	Decellularized natural 3D cellulose scaffold derived from Borassus flabellifer (Linn.) as extracellular matrix for tissue engineering applications. Carbohydrate Polymers, 2021, 272, 118494.	5.1	13
148	Spinach and Chive for Kidney Tubule Engineering: the Limitations of Decellularized Plant Scaffolds and Vasculature. AAPS Journal, 2021, 23, 11.	2.2	12
149	Adult mesenchymal stem cells and their possibilities for Dentistry: what to expect?. Dental Press Journal of Orthodontics, 2020, 25, 85-92.	0.2	3
150	Carbonâ€Based Materials for Articular Tissue Engineering: From Innovative Scaffolding Materials toward Engineered Living Carbon. Advanced Healthcare Materials, 2022, 11, e2101834.	3.9	30
151	Plant cell adhesion and growth on artificial fibrous scaffolds as an in vitro model for plant development. Science Advances, 2021, 7, eabj1469.	4.7	18
152	Natural Biomaterials from Biodiversity for Healthcare Applications. Advanced Healthcare Materials, 2022, 11, e2101389.	3.9	19
153	Decellularization of ram cardiac tissue via supercritical CO2. Journal of Supercritical Fluids, 2022, 180, 105453.	1.6	4
154	Overview of 3D Technology Applications in Plants: Phenomic, Mapping with Robotic Systems, Architectural Designs, Plant and Animal Tissue Culture Approaches. Anadolu University Journal of Science and Technology - C Life Sciences and Biotechnology, 0, , .	0.0	0
155	Surgical treatment for heart failure: cell-based therapy with engineered tissue. Vessel Plus, 2019, 2019, .	0.4	1
156	A Novel Plant Leaf Patch Absorbed With IL-33 Antibody Decreases Venous Neointimal hyperplasia. Frontiers in Bioengineering and Biotechnology, 2021, 9, 742285.	2.0	10

#	Article	IF	Citations
157	Plant-Based Polymeric Nanomaterials for Biomedical Applications. , 2020, , 129-158.		0
158	Biobased Materials for Medical Applications. , 2021, , 139-193.		1
159	Perovskite Materials in Biomedical Applications. Materials Horizons, 2020, , 95-116.	0.3	5
162	Information and Scientific Impact of Advanced Therapies in the Age of Mass Media: Altmetrics-Based Analysis of Tissue Engineering. Journal of Medical Internet Research, 2021, 23, e25394.	2.1	0
163	Bone tissue engineering. , 2022, , 587-644.		2
164	Myocardial tissue engineering. , 2022, , 409-457.		0
165	Bioinspired <i>In Vitro</i> Brain Vasculature Model for Nanomedicine Testing Based on Decellularized Spinach Leaves. Nano Letters, 2021, 21, 9853-9861.	4.5	6
166	Scaffolding Biomaterials for 3D Cultivated Meat: Prospects and Challenges. Advanced Science, 2022, 9, e2102908.	5.6	84
167	Homemade bread: Repurposing an ancient technology for in vitro tissue engineering. Biomaterials, 2022, 280, 121267.	5.7	15
168	The Emerging Role of Decellularized Plant-Based Scaffolds as a New Biomaterial. International Journal of Molecular Sciences, 2021, 22, 12347.	1.8	25
169	Cellulose Nanosystems from Synthesis to Applications. , 2021, , 1-33.		0
171	Unravelling Interactions and Mechanical Properties of Plant Cell Wall Biopolymer Using TA.XT plus Texture Analyser. , 0, , .		0
172	Electrospun Composite Nanofibers Based on Poly (Îµ-Caprolactone) and Styrax Liquidus (Liquidambar) Tj ETQq0 0 0 rgBT /Overlock 10 T Cytocompatibility Results. Journal of Polymers and the Environment, 2022, 30, 2462-2473.	2.4	7
173	Waste-derived biomaterials as building blocks in the biomedical field. Journal of Materials Chemistry B, 2022, 10, 489-505.	2.9	9
174	Molecular dynamics simulations and inÂvitro studies of hybrid decellularized leaf-peptide-polypyrrole composites for potential tissue engineering applications. Journal of Biomolecular Structure and Dynamics, 2022, , 1-16.	2.0	1
175	Green nanotechnology in cardiovascular tissue engineering. , 2022, , 237-281.		7
176	The influence of friedelin, resinone, tingenone and betulin of compounds on chondrogenic differentiation of porcine adipose-derived mesenchymal stem cells (pADMSCs). Biochimie, 2022, , .	1.3	5
177	Decellularized Alstroemeria flower stem modified with chitosan for tissue engineering purposes: A cellulose/chitosan scaffold. International Journal of Biological Macromolecules, 2022, 204, 321-332.	3.6	10

#	Article	IF	Citations
178	Decellularization Strategies for Regenerating Cardiac and Skeletal Muscle Tissues. Frontiers in Bioengineering and Biotechnology, 2022, 10, 831300.	2.0	16
179	Bioengineering Outlook on Cultivated Meat Production. Micromachines, 2022, 13, 402.	1.4	14
180	Natural Plant Tissue with Bioinspired Nano Amyloid and Hydroxyapatite as Green Scaffolds for Bone Regeneration. Advanced Healthcare Materials, 2022, 11, e2102807.	3.9	11
181	Deciphering Fluid Transport Within Leafâ€Inspired Capillary Networks Based on a 3D Computational Model. Small, 2022, 18, e2108102.	5.2	3
182	Mechanosensitive osteogenesis on native cellulose scaffolds for bone tissue engineering. Journal of Biomechanics, 2022, 135, 111030.	0.9	3
183	Recent Advances in Development of Natural Cellulosic Non-Woven Scaffolds for Tissue Engineering. Polymers, 2022, 14, 1531.	2.0	8
186	Surface Modification of Decellularized Natural Cellulose Scaffolds with Organosilanes for Bone Tissue Regeneration. ACS Biomaterials Science and Engineering, 2022, 8, 2000-2015.	2.6	10
187	Scaffolding technologies for the engineering of cultured meat: Towards a safe, sustainable, and scalable production. Trends in Food Science and Technology, 2022, 126, 13-25.	7.8	25
188	An Edible, Decellularized Plant Derived Cell Carrier for Lab Grown Meat. Applied Sciences (Switzerland), 2022, 12, 5155.	1.3	23
189	Engineered 2D materials for optical bioimaging and path toward therapy and tissue engineering. Journal of Materials Research, 2022, 37, 1689-1713.	1.2	12
190	Crossing Phylums: Butterfly Wing as a Natural Perfusable Three-Dimensional (3D) Bioconstruct for Bone Tissue Engineering. Journal of Functional Biomaterials, 2022, 13, 68.	1.8	4
191	Biotextile-based scaffolds in tissue engineering. , 2022, , 285-313.		0
192	Multi-functional topology optimization of<i>Victoria cruziana</i>veins. Journal of the Royal Society Interface, 2022, 19, .	1.5	4
194	Cellulose Nanosystems from Synthesis to Applications. , 2022, , 145-176.		0
195	Toward Plant Cyborgs: Hydrogels Incorporated onto Plant Tissues Enable Programmable Shape Control. ACS Macro Letters, 2022, 11, 961-966.	2.3	5
196	Wood-Derived Vascular Patches Loaded With Rapamycin Inhibit Neointimal Hyperplasia. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	1
197	Endless forms most beautiful 2.0: teleonomy and the bioengineering of chimaeric and synthetic organisms. Biological Journal of the Linnean Society, 2023, 139, 457-486.	0.7	28
198	Production of cultured fat with peanut wire-drawing protein scaffold and quality evaluation based on texture and volatile compounds analysis. Food Research International, 2022, 160, 111636.	2.9	15

#	Article	IF	Citations
199	In vitro and in vivo biocompatibility of decellularized cellulose scaffolds functionalized with chitosan and platelet rich plasma for tissue engineering applications. International Journal of Biological Macromolecules, 2022, 217, 522-535.	3.6	4
200	Extracellular Matrix Coatings on Cardiovascular Materialsâ€"A Review. Coatings, 2022, 12, 1039.	1.2	6
201	The effect of chemical detergents on the decellularization process of olive leaves for tissue engineering applications. Engineering Reports, 0, , .	0.9	5
202	In vitro Insect Fat Cultivation for Cellular Agriculture Applications. ACS Biomaterials Science and Engineering, 2022, 8, 3785-3796.	2.6	3
203	Injectable and Ultra-Compressible Shape-Memory Mushroom: Highly Aligned Microtubules for Ultra-Fast Blood Absorption and Hemostasis. SSRN Electronic Journal, 0, , .	0.4	0
204	A Review on Bioinks and their Application in Plant Bioprinting. International Journal of Bioprinting, 2022, 8, 612.	1.7	6
205	Plant Tissue Parenchyma and Vascular Bundles Selectively Regulate Stem Cell Mechanosensing and Differentiation. Cellular and Molecular Bioengineering, 2022, 15, 439-450.	1.0	3
206	Highly Strong and Damage-Resistant Natural Rubber Membrane via Self-Assembly and Construction of Double Network. Membranes, 2022, 12, 933.	1.4	1
207	Decellularized fennel and dill leaves as possible 3D channel network in GelMA for the development of an in vitro adipose tissue model. Frontiers in Bioengineering and Biotechnology, 0, 10, .	2.0	3
208	Biodegradable scaffolds based on plant stems for application in regenerative medicine. Biomedical Physics and Engineering Express, 0, , .	0.6	1
209	Decellularized Spinach Biomaterials Support Physiologically Relevant Mechanical Cyclic Strain and Prompt a Stretch-Induced Cellular Response. ACS Applied Bio Materials, 2022, 5, 5682-5692.	2.3	2
211	Injectable and ultra-compressible shape-memory mushroom: Highly aligned microtubules for ultra-fast blood absorption and hemostasis. Chemical Engineering Journal, 2023, 460, 140554.	6.6	5
212	Bioprocessing by Decellularized Scaffold Biomaterials in Cultured Meat: A Review. Bioengineering, 2022, 9, 787.	1.6	7
213	Tissue Engineering for Gastrointestinal and Genitourinary Tracts. International Journal of Molecular Sciences, 2023, 24, 9.	1.8	2
214	New vegetable-waste biomaterials by Lupin albus L. as cellular scaffolds for applications in biomedicine and food. Biomaterials, 2022, , 121984.	5.7	5
215	Sustainable Future Protein Foods: The Challenges and the Future of Cultivated Meat. Foods, 2022, 11, 4008.	1.9	11
216	Celeryâ€derived scaffolds with liver lobuleâ€mimicking structures for tissue engineering transplantation. , 2022, 1, .		1
217	Nature-inspired vascularised materials and devices for biomedical engineering. Current Opinion in Biomedical Engineering, 2023, 25, 100444.	1.8	1

#	Article	IF	Citations
218	Icariin: A Promising Natural Product in Biomedicine and Tissue Engineering. Journal of Functional Biomaterials, 2023, 14, 44.	1.8	17
219	Designer Scaffolds for Interfacial Bioengineering. Advanced Engineering Materials, 0, , 2201415.	1.6	2
220	Closed-loop vasculature network design for bioprinting large, solid tissue scaffolds. Biofabrication, 2023, 15, 024104.	3.7	1
221	A review on directional muscle cell growth in scaffolding biomaterials with aligned porous structures for cultivated meat production. Food Research International, 2023, 168, 112755.	2.9	5
222	Plant-derived biomaterials and scaffolds. Cellulose, 2023, 30, 2731-2751.	2.4	9
224	Faster and Protective Wound Healing Mechanistic of Paraâ€Coumaric Acid Loaded Liver ECM Scaffold Crossâ€linked with Acellular Marine Kelp. Advanced Functional Materials, 2023, 33, .	7.8	3
225	Decellularized lotus petioles integrated microfluidic chips for neural cell alignment monitoring. Composites Part B: Engineering, 2023, 255, 110621.	5.9	4
226	3D bioprinting of gastrointestinal cancer models: A comprehensive review on processing, properties, and therapeutic implications. Biointerphases, 2023, 18, 020801.	0.6	0
227	Plantâ€Derived Biomaterials and Their Potential in Cardiac Tissue Repair. Advanced Healthcare Materials, 2023, 12, .	3.9	1
228	Leaf-venation-directed cellular alignment for macroscale cardiac constructs with tissue-like functionalities. Nature Communications, 2023, 14, .	5.8	4
229	Small-Caliber Vascular Grafts Engineered from Decellularized Leaves and Cross-Linked Gelatin. Tissue Engineering - Part A, 2023, 29, 397-409.	1.6	3
230	Emergence of Plant-Based Decellularized Scaffolds for Tissue Regeneration: A Review. ACS Sustainable Chemistry and Engineering, 2023, 11, 6485-6497.	3.2	1
233	Nanotechnology for the Obtention of Natural Origin Materials and Environmentally Friendly Synthesis Applied to Tissue Engineering. , 2023, , 111-139.		0
238	Protein-Based Microfluidic Models for Biomedical Applications. , 2023, , 1-28.		0
240	Advancing strategies towards the development of tissue engineering scaffolds: a review. Journal of Materials Science, 2023, 58, 12847-12898.	1.7	0
245	Cellulose in tissue engineering. , 2023, , 481-500.		0
246	Decellularization Strategies for Regenerative Medicine in Cardiovascular Diseases and Other Severe Problems Within the Body: From Processing Techniques to Applications. , 2023, , 1-24.		0
256	Manufacture of Hybrid alternative protein food products using a combination of plant-based ingredients, fermentation-derived ingredients, and animal cells. , 2024, , 251-266.		0

#	Article	IF	Citations