

Year	Author	Title
2014	T.G. Seiler, I. Fischinger, T. Senfft, G. Schmidinger, T. Seiler	Intrastromal Application Of Riboflavin For Corneal Crosslinking
2015	S.A. Hurd, N.M. Bhatti, A.M. Walker, B.M. Kasukonis, J.C. Wolchok	Development Of A Biological Scaffold Engineered Using The Extracellular Matrix Secreted By Skeletal Muscle Cells
2016	B. M. Kasukonis, J.T. Kim, T.A. Washington, J.C. Wolchok	Development Of An Infusion Bioreactor For The Accelerated Preparation Of Decellularized Skeletal Muscle Scaffolds
2016	N. Bekesi, C. Dorronsoro, A. de la Hoz, S. Marcos	Material Properties From Air Puff Corneal Deformation By Numerical Simulations On Model Corneas
2016	X. Liu, J. Cleary, G.K. German	The Global Mechanical Properties And Multi-Scale Failure Mechanics Of Heterogeneous Human Stratum Corneum
2017	A. Kumar, H. Saghlatoon, T-G. La, M. M. Honari, H. Charaya, H.A. Damis, R. Mirzavand, P. Mousavi, H-J. Chung	A Highly Deformable Conducting Traces For Printed Antennas And Interconnects: Silver/Fluoropolymer Composite Amalgamated By Triethanolamine
2017	Fischinger, I., Seiler, T.G., Frueh, B.E. and Miller, M.	Biomechanical properties after corneal crosslinking using riboflavin in dextran solution or in hydroxy propyl methyl cellulose.
2017	Lee, P.S., Eckert, H., Hess, R., Gelinsky, M., Rancourt, D., Krawetz, R., Cuniberti, G. and Scharnweber, D.	Developing a customized perfusion bioreactor prototype with controlled positional variability in oxygen partial pressure for bone and cartilage tissue engineering.
2017	X. Li, M.M. Honari, Y. Fu, A. Kumar, H. Saghlatoon	Self-Reinforcing Graphene Coatings On 3d Printed Elastomers For Flexible Radio Frequency Antennas And Strain Sensors
2018	T.D. Usal, D. Yucel, V. Hasirci	A Novel Gelma-Phema Hydrogel Nerve Guide For The Treatment Of Peripheral Nerve Damages
2018	Nemavhola, F., Dhlamini, S., Sigwadi, R. and Mokrani, T.	Effect of relative humidity on mechanical strength of zirconia/Nafion® Nano-composite membrane.
2018	S. Tukkan, D. Atila, A. Akdaq, A. Tezcaner	Fabrication Of Functionalized Citrus Pectin/Silk Fibroin Scaffolds For Skin Tissue Engineering.
2018	G. Griffanti, M. James-Bhasin, I. Donelli, G. Freddi, S.N. Nazhat	Functionalization Of Silk Fibroin Through Anionic Fibroin Derived Polypeptides
2018	N. Alejandro-Alba, R. Cutierrez-Contreras, Carlos Dorronsoro, S. Marcos	Intraocular Photobonding To Enable Accommodating Intraocular Lens Function
2018	R. Sigwadi, F. Nemavhola, M. Dhlamini, T. Mokrani	Mechanical Strength Of Nafion®/Zro2 Nano-Composite Membrane
2018	X. Wang, J.A. Muniz-Lerma, O. Sanchez-Mata, M.A. Shandiz, M. Brochu	Microstructure And Mechanical Properties Of Stainless Steel 316l Vertical Struts Manufactured By Laser Powder Bed Fusion Process
2018	K. Jahan, M. Mekhail, M. Tabrizian	One-Step Fabrication Of Apatite-Chitosan Scaffold As A Potential Injectable Construct For Bone Tissue Engineering
2018	Jahan, K., Mekhail, M. and Tabrizian, M.	One-step fabrication of apatite-chitosan scaffold as a potential injectable construct for bone tissue engineering.
2018	Schimelman, M. Whitney, J. Steinauer, W. Xu, T.L. Yaksh, Q.T. Nguyen, S.Chen	Rapid Continuous 3d Printing Of Customizable Peripheral Nerve Guidance Conduits
2018	B. Patel, Z. Xu, C. Pinnock, L. S. Kabbani, M. T. Lam	Self-Assembled Collagen-Fibrin Hydrogel Reinforces Tissue Engineered Adventitia Vessels Seeded With Human Fibroblasts

2018	C.P. Kenaley, A. Sanin, J. Ackerman, J. Yoo, A. Alberts	Skin Stiffness In Ray-Finned Fishes: Contrasting Material Properties Between Species And Body Regions
2018	Tavakoli, J., Amin, D.B., Freeman, B.J. and Costi, J.J.	The biomechanics of the inter-lamellar matrix and the lamellae during progression to lumbar disc herniation: which is the weakest structure?
2018 F	Sigwadi, R., Dhlamini, M.S., Mokrani, T., Nonjola, P. and Nemavhola,	The impact of zirconia nano-rods on the methanol permeability and conductivity of Nafion®-ZrO ₂ nano-composite membrane.
2018	W. Zhu, S-H. Pyo, S. You, C. Yu, J. Alido, J. Liu, Y. Leong, S. Chen	Three-Dimensional Printing Of Bisphenol A-Free Polycarbonates
2019	G. Bahcecioglu, N. Hasirci, B. Bilgen, V. Hasirci	A 3d Printed Pcl/Hydrogel Construct With Zone-Specific Biochemical Composition Mimicking That Of The Meniscus
2019 K. Ye	S. Freeman, R. Ramos, P. Chando, L. Zhou, K. Reeser, S. Jin, P. Soman,	A Bioink Blend for Rotary 3D Bioprinting Tissue Engineered Small-Diameter Vascular Constructs
2019	H. A. Alam, A. D. Dalgic, A. Tezcaner, C. Ozen, D. Keskin	A Comparative Study Of Monoaxial And Coaxial Pcl/Gelatin/Poloxamer 188 Scaffolds For Bone Tissue Engineering
2019	Usal, T.D., Yucel, D. and Hasirci, V.	A novel GelMA-pHEMA hydrogel nerve guide for the treatment of peripheral nerve damages.
2019	H. Derakhshandeh	A Smart Bandage Equipped with Miniaturized Needle Arrays and Wirelessly-Controlled Drug Delivery System for the Treatment of Chronic Wounds
2019	P. Comeau, T. Willett	An Alternative Approach to the Surface Methacrylation of Non-stoichiometric Hydroxyapatite Nanoparticles for Use in Bone-Inspired Composites
2019	G. Bahcecioglu, N. Hasirci, B. Bilgen, V. Hasirci	Anatomical Meniscus Construct with Zone Specific Biochemical Composition and Structural Organization
2019	S. Lin, X. Liu, J. Liu, H. Yuk, H. C. Loh, G. A. Parada, C. Settens, J. Song, A. Masic, G. H. McKinley, X. Zhao	Anti-Fatigue-Fracture Hydrogels
2019	X. Wang, J.A. Muniz-Lerma, O. Sanchez-Mata, M.A. Shandiz, N. Brodusch, R. Gauvin, M. Brochu	Characterization Of Single Crystalline Austenitic Stainless Steel Thin Struts Processed By Laser Powder Bed Fusion
2019	D. Wirth, J. Pokorski	Design and fabrication of a low-cost pilot-scale melt-processing system
2019	N. Sharma	Design of cell-instructiv Design of cell-instructive biomaterial scaffolds for inter e biomaterial scaffolds for intervertebral disc regeneration
2019	R. M. Rad, D. Atila, Z. Evis, D. Keskin, A. Tezcaner	Development of a Novel Functionally Graded Membrane Containing Boron Modified Bioactive Glass Nanoparticles for Guided Bone Regeneration
2019	A. Prince	Development of in-situ Forming Hydrogels for Intra-articular Drug Delivery
2019	D. A. Prince, I. J. Villamagna, C. C. Hopkins, J. R. de Bruyn, E. R. Gillies	Effect Of Drug Loading On The Properties Of Temperature-Responsive Polyester-Poly(Ethylene Glycol)-Polyester Hydrogels
2019	R. Sigwadi, F. Nemavhola, M. Dhlamini, T. Mokrani	Enhancing the Mechanical Properties of Zirconia/Nafion® Nanocomposite Membrane through Carbon Nanotubes for Fuel Cell Application
2019	R. M. Rad, D. Atila, E. E. Akgun, Z. Evis, D. Keskin, A. Tezcaner	Evaluation Of Human Dental Pulp Stem Cells Behavior On A Novel Nanobiocomposite Scaffold Prepared For Regenerative Endodontics
2019	A. Cullen, A. Price	Fabrication of 3D Conjugated Polymer Structures via Vat Polymerization Additive Manufacturing

2019	Li, Y., Guo, F., Hao, Y., Gupta, S.K., Hu, J., Wang, Y., Wang, N., Zhao, Y. and Guo, M.	Helical nanofiber yarn enabling highly stretchable engineered microtissue.
2019	M. Uyaniklar, G. Günal, A. Tevlek, P. Hosseinian, H. Aydin	Hybrid Cornea: Cell Laden Hydrogel Incorporated Decellularized Matrix
2019	J. Ortiz Ortiz, G. Carbajal de la Torre, M. Villagomez Galindo, M. Antonio Espinosa Medina, H. Aguilar Rodriguez	Hyperelastic characterization of synthetic mesh for abdominal wall hernia repair
2019	Liu, X., Steiger, C., Lin, S., Parada, G.A., Liu, J., Chan, H.F., Yuk, H., Phan, N.V., Collins, J., Tamang, S. and Traverso, G.	Ingestible hydrogel device.
2019	Shridhar, A., Amsden, B.G., Gillies, E.R. and Flynn, L.E.	Investigating the effects of tissue-specific extracellular matrix on the adipogenic and osteogenic differentiation of human adipose-derived stromal cells within composite hydrogel scaffolds.
2019	S. Qiu	Materials and Processing for Wearable Healthcare Electronics Systems: Flexible Circuit Boards and Stretchable e-Textile Patches for Surface Electromyography
2019	S. Lin, J. Liu, X. Liu, X. Zhao	Muscle-like Fatigue-Resistant Hydrogels by Mechanical Training
2019	N. Marins, B. Lee, R. Silva, A. Raghavan, N. Carreno, K. Grandfield	Niobium Pentoxide and Hydroxyapatite Particle Loaded Electrospun Polycaprolactone/Gelatin Membranes for Bone Tissue Engineering
2019	I. J. Villamagna, T. N. Gordon, M. B. Hurtig, F. Beier, E. R. Gillies	Poly(Ester Amide) Particles For Controlled Delivery Of Celecoxib
2019	S. Miar, C. Perez, J. Ong, T. Guda	Polyvinyl Alcohol-Poly Acrylic Acid Bilayer Oral Drug Delivery Systems: A Comparison Between Thin Films and Inverse Double Network Bilayers
2019	F. Nemavholia, R. Sigwadi	Prediction of Hyperelastic Material Properties of Nafion117 and Nafion/ZrO ₂ Nano-Composite Membrane
2019	E. Malikmammadov, T. E. Tanir, A. Kiziltay, N. Hasirci	Preparation And Characterization Of Poly (E-Caprolactone) Scaffolds Modified With Cell-Loaded Fibrin Gel
2019	P. Comeau, T. Willett	Printability of Methacrylated Gelatin upon Inclusion of a Chloride Salt and Hydroxyapatite Nano-Particles
2019	B. Lu, H. Yuk, S. Lin, N. Jian, K. Qu, J. Xu, X. Zhao	Pure PEDOT: PSS Hydrogels
2019	A. Walker, J. Kim, J. Wyatt, A. Terlouw, K. Balachandran, J. Wolchok	Repeated In Vitro Impact Conditioning Of Astrocytes Decreases The Expression And Accumulation Of Extracellular Matrix
2019	K. Guzman-Diaz, A. Alvarado-Gonzalez, D. Herrera, A. Hernandez-Reynoso, S. Rodriguez-Reynoso, A. Garcia-Gonzalez	Surface Representation of the Urinary Bladder and Bio-mechanical Analysis by Linear Dynamic Model
2019	Y. Liang	Synthesis of Crosslinkable Poly(ester amide)s for Cell Encapsulation and Delivery
2019	M. Harvey-Burgess, D. Gregory	The Effect of Axial Torsion on the Mechanical Properties of the Annulus Fibrosus
2019	Y. Luo, D. Mills	The Effect of Halloysite Addition on the Material Properties of Chitosan–Halloysite Hydrogel Composites
2019	R. Sigwadi, M. Dhlamini, T. Mokrani, F. Nemavholia, P. Nonjola, P. Msomi	The proton conductivity and mechanical properties of Nafion®/ ZrP nanocomposite membrane
2019	Charaya, H., La, T.G., Rieger, J. and Chung, H.J.	Thermochromic and Piezocapacitive Flexible Sensor Array by Combining Composite Elastomer Dielectrics and Transparent Ionic Hydrogel Electrodes.

2019	S. Lin	Tissue-like Hydrogels by Design
2019	Z. Lipsky, G. German	Ultraviolet Light Degrades the Mechanical and Structural Properties of Human Stratum Corneum
2020	Comeau, P. and Willett, T.	A Carbodiimide Coupling Approach for PEGylating GelMA and Further Tuning GelMA Composite Properties.
2020	Snider, E.J., Cornell, L.E., Acevedo, J.M., Gross, B., Edsall, P.R., Lund, B.J. and Zamora, D.O.	Development and characterization of a Benchtop corneal puncture injury Model.
2020	Jiang, X., Wu, S., Kuss, M., Kong, Y., Shi, W., Streubel, P.N., Li, T. and Duan, B.	3D printing of multilayered scaffolds for rotator cuff tendon regeneration.
2020	Hua, M., Wu, D., Wu, S., Ma, Y., Alsaied, Y. and He, X.	4D Printable Tough and Thermoresponsive Hydrogels.
2020	Currie, H.A., Martin, N.F., Garcia, G.E., Davis, F.M. and Kemp, P.S.	A mechanical approach to understanding the impact of the nematode <i>Anguillicoloides crassus</i> on the European eel swimbladder.
2020	Wiseman, Z., Bonick, I., Ghanavati, S., Harris, C., Kreikemeier-Bower, S., Basri, J., Rosenbohm, R., Yang, P., Mostafalu, D., Orgill, A. and Tamayol	A Wirelessly Controlled Smart Bandage with 3D-Printed Miniaturized Needle Arrays
2020	Mondal, D., Srinivasan, A., Comeau, P., Toh, Y.C. and Willett, T.L.	Acrylated epoxidized soybean oil/hydroxyapatite-based nanocomposite scaffolds prepared by additive manufacturing for bone tissue engineering.
2020	Wu, S., Kumar, V., Xiao, P., Kuss, M., Lim, J.Y., Guda, C., Butcher, J. and Duan, B.	Age related extracellular matrix and interstitial cell phenotype in pulmonary valves.
2020	Petrov, S.V., Pereira, F.D., Karalkin, P.A., Nezhurina, E.K., Gryadunova, A.A., Bulanova, E.A. and Sapozhnikov, O.A.	Biofabrication of a Functional Tubular Construct from Tissue Spheroids Using Magnetoacoustic Levitational Directed Assembly.
2020	Ma, Y., Hua, M., Wu, S., Du, Y., Pei, X., Zhu, X., Zhou, F. and He, X.	Bioinspired high-power-density strong contractile hydrogel by programmable elastic recoil.
2020	Bektas, C.K. and Hasirci, V.	Cell loaded 3D bioprinted GelMA hydrogels for corneal stroma engineering.
2020	Rad, R.M., Alshemary, A.Z., Evis, Z., Keskin, D. and Tezcaner, A.	Cellulose acetate-gelatin coated boron-bioactive glass biocomposite scaffolds for bone tissue engineering.
2020	Palomino-Durand, C., Lopez, M., Marchandise, P., Martel, B., Blanchemain, N. and Chai, F.	Chitosan/Polycyclodextrin (CHT/PCD)-Based Sponges Delivering VEGF to Enhance Angiogenesis for Bone Regeneration.
2020	Patel, B., Saliganan, D., Rteil, A., Kabbani, L. and Lam, M.	Decellularized Dermis Extracellular Matrix Allograft as a Scaffold for Biological Engineered Blood Vessels.
2020	Amiel, A.G., Palomino-Durand, C., Maton, M., Lopez, M., Cazaux, F., Chai, F., Neut, C., Foligné, B., Martel, B. and Blanchemain, N.	Designed sponges based on chitosan and cyclodextrin polymer for a local release of ciprofloxacin in diabetic foot infections.
2020	E. Snider, L. Cornell, J. Acevedo, B. Gross, P. Edsall, B. Lund, D. Zamora	Development and Characterization of a Benchtop Corneal Puncture Injury Model
2020	Acosta, F.M., Jia, U.T.A., Stojkova, K., Howland, K.K., Guda, T., Pacelli, S., Brey, E.M. and Rathbone, C.R.	Diabetic Conditions Confer Metabolic and Structural Modifications to Tissue-Engineered Skeletal Muscle.
2020	Fathi-Achachelouei, M., Keskin, D., Bat, E., Vrana, N.E. and Tezcaner, A.	Dual growth factor delivery using PLGA nanoparticles in silk fibroin/PEGDMA hydrogels for articular cartilage tissue engineering.
2020	Guner, M.B., Dalgic, A.D., Tezcaner, A., Yilanci, S. and Keskin, D.	Dual phase scaffold produced by rotary jet spinning and electrospinning for tendon tissue engineering. Biomedical Materials.

2020	Brown, M.S., Mendoza, M., Chavoshnejad, P., Razavi, M.J., Mahler, G.J. and Koh, A.	Electronic-ECM: A Permeable Microporous Elastomer for an Advanced Bio-Integrated Continuous Sensing Platform.
2020	Jan, L., Maria, L., Niklas, P., Isaak, F., Christina, H. and Gerald, S.	Endothelial Safety and Efficacy of ex-vivo Collagen Cross Linking (CXL) of Human Corneal Transplants.
2020	Lee, C.H., Liu, Y., Moore, M., Ge, X. and Siddique, Z	Enhancement of Stay-at-Home Learning for the Biomechanics Laboratory Course During COVID-19 Pandemic.
2020	Zhang, J., Wu, C., Xu, Y., Chen, J., Ning, N., Yang, Z., Guo, Y., Hu, X. and Wang, Y.	Highly Stretchable and Conductive Self-Healing Hydrogels for Temperature and Strain Sensing and Chronic Wound Treatment.
2020	van Haaften, E.E., Wissing, T.B., Kurniawan, N.A., Smits, A.I. and Bouting, C.V.	Human In Vitro Model Mimicking Material-Driven Vascular Regeneration Reveals How Cyclic Stretch and Shear Stress Differentially Modulate Inflammation and Matrix Deposition.
2020	He, Q., Laurence, D.W., Lee, C.H. and Chen, J.S.	Manifold learning based data-driven modeling for soft biological tissues.
2020	Dhandapani, N., Samuelsson, K., Sköld, M., Zohrevand, K. and German, G.K	Mechanical, compositional, and microstructural changes caused by human skin maceration.
2020	G. Isik, N. Hasirci, A. Tezcaner, A. Kiziltay	Multifunctional periodontal membrane for treatment and regeneration purposes
2020	Muralidharan, G., Palací, J., Pascual, D., Eliasy, A., Abass, A., Solarski, J. and Karnowski, K.	Multi-meridian corneal imaging of air-puff induced deformation for improved detection of biomechanical abnormalities.
2020	Liang, N., Flynn, L.E. and Gillies, E.R.	Neutral, water-soluble poly (ester amide) hydrogels for cell encapsulation.
2020	McCormick, R., Pearce, I., Kaye, S. and Haneef, A.	Optimisation of a Novel Bio-Substrate as a Treatment for Atrophic Age-Related Macular Degeneration.
2020	Obhi, R.J.K., Shore, I., Galuta, A., Walker, K.L., Tsai, E.C. and Pelling, A.E.	Plant Scaffolds Support Motor Recovery and Regeneration in Rat Spinal Cord Injury.
2020	O'Connor, N.A., Syed, A., Wong, M., Hicks, J., Nunez, G., Jitianu, A., Siler, Z. and Peterson, M.	Polydopamine Antioxidant Hydrogels for Wound Healing Applications.
2020	Gopi, S., Ramsay, B.A., Ramsay, J.A. and Kontopoulou, M.	Preparation, Characterization and Processing of PCL/PHO Blends by 3D Bioplotting.
2020	Gerdes, S., Mostafavi, A., Ramesh, S., Memic, A., Rivero, I.V., Rao, P. and Tamayol, A.	Process–Structure–Quality Relationships of Three-Dimensional Printed Poly (Caprolactone)-Hydroxyapatite Scaffolds.
2020	Aldosary, G., Tse, T., Arnaout, A., Caudrelier, J.M., Czernyj, C., Romain, R., McLean, L., Foottit, C., Belec, J. and Vandervoort, E.	Radiological, dosimetric and mechanical properties of a deformable breast phantom for radiation therapy and surgical applications.
2020	Griffanti, G., Rezabeigi, E., Li, J., Murshed, M. and Nazhat, S.N.	Rapid biofabrication of printable dense collagen bioinks of tunable properties.
2020	Ghelani, R.N., Zwambag, D.P. and Gregory, D.E.	Rapid increase in intradiscal pressure in porcine cervical spine units negatively impacts annulus fibrosus strength.
2020	Gholizadeh, S., Allahyari, Z., Carter, R., Delgadillo, L., Blaquiere, M., Nouguier-Morin, F., Marchi, N. and Gaborski, T.R.	Robust and Gradient Thickness Porous Membranes for In Vitro Modeling of Physiological Barriers.
2020	Lopez, L.I.V., Bronte, D., Germann, J. and Marcos, S.	Scleral cross-linking using Rose Bengal-Green Light.
2020	Wang, X., Muñiz-Lerma, J.A., Sanchez-Mata, O., Atabay, S.E., Shandiz, M.A. and Brochu, M.	Single-crystalline-like stainless steel 316L with different geometries fabricated by laser powder bed fusion.

2020	Ho, Q.B. and Kontopoulou, M.	Stabilization of the cellular structure of polypropylene foams and secondary nucleation mechanism in the presence of graphene nanoplatelets.
2020	Inoue, A., Yuk, H., Lu, B. and Zhao, X.	Strong adhesion of wet conducting polymers on diverse substrates.
2020	Luo, Y., Humayun, A. and Mills, D.K	Surface Modification of 3D Printed PLA/Halloysite Composite Scaffolds with Antibacterial and Osteogenic Capabilities.
2020	Ramesh, S., Kovelakuntla, V., Meyer, A.S. and Rivero, I.V.	Three-dimensional printing of stimuli-responsive hydrogel with antibacterial activity.
2020	Duijvelshoff, R., Cabrera, M.S., Sanders, B., Dekker, S., Smits, A.I., Baaijens, F.P. and Bouteren, C.V.	Transcatheter-Delivered Expandable Bioresorbable Polymeric Graft With Stenting Capacity Induces Vascular Regeneration.
2020	G.P., Menta, A.K., Jazwiec, T., Malinowski, M., Timek, T.A. and Rausch, M.K.	Tricuspid Chordae Tendineae Mechanics: Insertion Site, Leaflet, and Size-Specific Analysis and Constitutive Modelling.
2020	Comeau, P.A. and Willett, T.L.	Triethyleneglycol dimethacrylate addition improves the 3D-printability and construct properties of a GelMA-nHA composite system towards tissue engineering applications.
2020	Luo, Y., Humayun, A. and Mills, D.	Zinc Doped Halloysite Cooperating with Polylactic Acid for Bone Regeneration.
2020	Portillo-Esquivel, L.E., Nanduri, V., Zhang, F., Liang, W. and Zhang, B.	z-Wire: A Microscaffold That Supports Guided Tissue Assembly and Intramyocardium Delivery for Cardiac Repair.
2021	Senem Buyuksungur,Vasif Hasirci,Nesrin Hasirci	3D printed hybrid bone constructs of PCL and dental pulp stem cells loaded GelMA
2021	Derakhshanbeh,Mohamadmahdi Samandari,Fariba Aghabaglou,Ali Farzin,Laleh Abbasi,Sidi Bencherif,Adnan Memic,Pooria Mostafalu,Ali	3D-Printed Hydrogel-Filled Microneedle Arrays
2021	Laura K. Rivera-Tarazona,Tarjani Shukla,Kanwar Abhay Singh,Akhilesh K. Gaharwar,Zachary T. Campbell,Taylor H. Ware	4D Printing of Engineered Living Materials
2021	Patricia Comeau,Thomas Willett	A Carbodiimide Coupling Approach for PEGylating GelMA and Further Tuning GelMA Composite Properties
2021	Dibakar Mondal, Akshaya Srinivasan, Patricia Comeau, Yi-Chin Toh, Thomas L. Willett,	Acrylated epoxidized soybean oil/hydroxyapatite-based nanocomposite scaffolds prepared by additive manufacturing for bone tissue engineering,
2021	Francisca M. Acosta, Kennedy K. Howland, Katerina Stojkova, Elizabeth Hernandez, Eric M. Brey, and Christopher R. Rathbone	Adipogenic Differentiation Alters Properties of Vascularized Tissue-Engineered Skeletal Muscle
2021	Fulufhelo Nemavhola * ORCID logo , Harry M Ngwangwa , Thanyani Pandelani	An Investigation of Uniaxial Mechanical Properties of Excised Sheep Heart Muscle Fibre – Fitting of Different Hyperelastic Constitutive Models
2021	Ding, Y., Cui, Y., Yang, X. et al.	Anti-RANKL monoclonal antibody and bortezomib prevent mechanical unloading-induced bone loss.
2021	Gabriele Griffanti, Rayan Fairag, Derek H. Rosenzweig, Lisbet Haglund & Showan N. Nazhat	Automated biofabrication of anisotropic dense fibrin gels accelerate osteoblastic differentiation of seeded mesenchymal stem cells
2021	Zachary W. Lipsky, Marisa Patsy, Cláudia N. H. Marques, Guy K. German	Bacterial invasion across the human skin barrier – mechanisms and ensuing tissue degradation
2021	; Harry Ngwangwaa , Thanyani Pandelania,b	Biomechanical behaviour and hyperelastic model parameters identification of sheep omasum
2021	Lupe Villegas; James Germann; Susana Marcos	Biomechanical effects of Scleral crosslinking using Rose Bengal/Green-light and Riboflavin/UVA

2021	Isaak Fischinger, MD, Theo G. Seiler, MD, Jascha Wendelstein, MD, Kristin Tetz, MD, Barbara Fuchs, MD, and Matthias Bolz, MD	Biomechanical Response After Corneal Cross-linking With Riboflavin Dissolved in Dextran Solution Versus Hydroxypropyl Methylcellulose
2021	Morejon Andy, Norberg Christopher D., De Rosa Massimiliano, Best Thomas M., Jackson Alicia R., Travascio Francesco	Compressive Properties and Hydraulic Permeability of Human Meniscus: Relationships With Tissue Structure and Composition
2021	Bijal Patel, Bryan T. Wonski, Dan M. Saliganan, Ali Rteil, Loay S. Kabbani & Mai T. Lam	Decellularized dermis extracellular matrix allograft mechanically strengthens biological engineered tunica adventitia-based blood vessels
2021	Tidwell, K.; Harriet, S.; Barot, V.; Bauer, A.; Vaughan, M.B.; Hossan, M.R.	Design and Analysis of a Biodegradable Polycaprolactone Flow Diverting Stent for Brain Aneurysms
2021	Solaleh Miar MS, Gregory R. Dion MD, Sergio Montelongo PhD, Joo L. Ong PhD, Rena Bizios PhD, Teja Guda PhD	Development of a Bioinspired, Self-Adhering, and Drug-Eluting Laryngotracheal Patch
2021	Kantida Koysombat, Atikah Haneef	Development of Permanent Artificial Bowel Replacement Substrates
2021	Howland, Teja Guda, Settimio Pacelli, Eric M. Brey, and Christopher R. Rathbone	Diabetic Conditions Confer Metabolic and Structural Modifications to Tissue-Engineered Skeletal Muscle
2021	Carvajal-Berrio, Julia Marzi, Renee Duijvelshoff, Emily B. Lurier, Serena Buscone, Sylvia Dekker, Simone M. J. de Jong, Tristan Mes, Koen R. D.	Distinct Effects of Heparin and Interleukin-4 Functionalization on Macrophage Polarization and In Situ Arterial Tissue Regeneration Using Resorbable Supramolecular Vascular Grafts in Rats
2021	Mitchell Kuss1,2, Bo Liu1,2, Wen Xue1,2, Xiping Jiang1,4, Paul Lovell5, Aaron M Mohs5,6,7, Andrew T Dudley1,4, Tieshi Li11,8 and	Dynamic hyaluronic acid hydrogel with covalent linked gelatin as an anti-oxidative bioink for cartilage tissue engineering
2021	Solaleh Miar, Joo L. Ong, Rena Bizios, and Teja Guda*	Electrically Stimulated Tunable Drug Delivery From Polypyrrole-Coated Polyvinylidene Fluoride
2021	Brown, Anik Karan, Navatha Shree Sharma, Johnson V. John, Shelbie Weihs, Jazmin Ley, Jingwei Xie,	Electrostatic flocking of salt-treated microfibers and nanofiber yarns for regenerative engineering,
2021	Chung-Hao Lee, Yingtao Liu, Marc Moore, Xun Ge & Zahed Siddique	Enhancement of Stay-at-Home Learning for the Biomechanics Laboratory Course During COVID-19 Pandemic
2021	Xiaohao Sun, Minfang Chen, Debao Liu,	Fabrication and characterization of few-layer graphene oxide reinforced magnesium matrix composites,
2021	Innocent T. Mugaanire,a Kai Hou ORCID logo *a and Meifang Zhu*a	Heterogeneous structured tough conductive gel fibres for stable and high-performance wearable strain sensors†
2021	Barbara Rothen-Rutishauser, Alke Petri-Fink, and Jonathan K. Pokorski*	High-Throughput Manufacturing of Antibacterial Nanofibers by Melt Coextrusion and Post-Processing Surface-Initiated Atom Transfer Radical Polymerization
2021	Burak Derkus	Human cardiomyocyte-derived exosomes induce cardiac gene expressions in mesenchymal stromal cells within 3D hyaluronic acid hydrogels and in dose-dependent manner
2021	Cardenas, Dong Wu, Yousif Alsaid, Wenzhuo Wu, Xinyuan Zhu, Ximin He	Hydrogel Ionotronics with Ultra-Low Impedance and High Signal Fidelity across Broad Frequency and Temperature Ranges
2021	Kim, S., Regitsky, A.U., Song, J. et al.	In situ mechanical reinforcement of polymer hydrogels via metal-coordinated crosslink mineralization
2021	Augello, Flavio De Maio, Jacopo Gervasoni, Aniello Primiano, Giovanni Delogu, Marco De Spirito, Massimiliano Papi,	In situ N-acetylcysteine release from polyvinyl alcohol film for moisture-activated food packaging
2021	Bosworth, L.A.; Doherty, K.G.; Hsuan, J.D.; Cray, S.P.; D'Sa, R.A.; Pineda Molina, C.; Badylak, S.F.; Williams, R.L.	Material Characterisation and Stratification of Conjunctival Epithelial Cells on Electrospun Poly(ϵ -Caprolactone) Fibres Loaded with Decellularised Tissue Matrices
2021	Samuel P. Cray 1, Raechelle A. D'Sa 3, Catalina Pineda Molina 4,5 , Stephen F. Badylak 4,5,6 and Rachel L.	Epithelial Cells on Electrospun Poly(ϵ -Caprolactone) Fibres Loaded with Decellularised Tissue Matrices

2021	Gülçin Günal, Meltem Okan, Dincer Gokcen, Tuncer Caykara, and Halil Murat Aydin	Microwave-Assisted Synthesis of Stretchable and Transparent Poly(Ethyleneglycol-Sebacate) Elastomers with Autonomous Self-Healing and Capacitive Properties
2021	Changmin Shao, Junjie Chi, Zhuoyue Chen, Lingyu Sun, Luoran Shang, Yuanjin Zhao, Fangfu Ye,	Nano-imprinted anisotropic structural color graphene films for cardiomyocytes dynamic displaying,
2021	Thais Sousa, Nilabh Kajave, Pengfei Dong, Linxia Gu, Stephanie Florczyk, and Vipuil Kishore	Optimization of Freeze-FRESH Methodology for 3D Printing of Microporous Collagen Constructs
2021	Menekse Ermis	Photo-crosslinked gelatin methacrylate hydrogels with mesenchymal stem cell and endothelial cell spheroids as soft tissue substitutes
2021	Zhao, Chiao-Yueh Lo, Canran Wang, Dong Wu, Bowen Yao, Joseph Strzalka, Hua Zhou, Xinyuan Zhu, Ximin He	Poly(vinyl alcohol) Hydrogels with Broad-Range Tunable Mechanical Properties via the Hofmeister Effect
2021	Shuwang Wu, Yousif Alsaïd, Bowen Yao, Yichen Yan, Yusen Zhao, Mutian Hua, Dong Wu, Xinyuan Zhu, Ximin He	Rapid and scalable fabrication of ultra-stretchable, anti-freezing conductive gels by cononsolvency effect
2021	Christoff-Tempesta, T., Cho, Y., Kim, DY. et al.	Self-assembly of aramid amphiphiles into ultra-stable nanoribbons and aligned nanoribbon threads.
2021	Meng Gao, Hanxiang Wu, Roshan Plamthottam, Zhixin Xie, Ying Liu, Junhui Hu, Shuwang Wu, Lily Wu, Ximin He, Qibing Pei,	Skin temperature-triggered, debonding-on-demand sticker for a self-powered mechanosensitive communication system,
2021		Somatosensory actuator based on stretchable conductive photothermally responsive hydrogel
2021	Electrostatic flocking of salt-treated microfibers and nanofiber yarns for regenerative engineering,	Strong tough hydrogels via the synergy of freeze-casting and salting out
2021	M. Clarke, Gregory W. Peterson, Jonathan K. Pokorski, and Seth M. Cohen	Strong, Ductile MOF–Poly(urethane urea) Composites
2021	Sidi Duan, Shuwang Wu, Mutian Hua, Dong Wu, Yichen Yan, Xinyuan Zhu, Ximin He,	Tendon-inspired anti-freezing tough gels
2021	John G. McMorrana Diane E. Gregoryab	The effect of compressive loading rate on annulus fibrosus strength following endplate fracture
2021	Rudzani Sigwadi * , Touhami Mokrani , Phumlani Msomi ORCID logo , Fulufhelo Nemavhola ORCID logo	The Effect of Sulfated Zirconia and Zirconium Phosphate Nanocomposite Membranes on Fuel Cell Efficiency
2021	Han, P.; Vaquette, C.; Abdal-hay, A.; Ivanovski, S.	The Mechanosensing and Global DNA Methylation of Human Osteoblasts on MEW Fibers.
2021	Srikanthan Ramesh, Vamsi Kovelakuntla, Anne S. Meyer,	Three-dimensional printing of stimuli-responsive hydrogel with antibacterial activity,
2021	T.B. Wissing, K. Van der Heiden, S.M. Serra, A.I.P.M. Smits, C.V.C. Bouten, F.J.H. Gijsen	Tissue-engineered collagenous fibrous cap models to systematically elucidate atherosclerotic plaque rupture
2021	Khandaker, M.; Progri, H.; Arasu, D.T.; Nikfarjam, S.; Shamim, N.	Use of Polycaprolactone Electrospun Nanofiber Mesh in a Face Mask.