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Engineering controllable anisotropy in electrospun biodegradable nanofibrous scaffolds for musculoskeletal tissue engineering

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| # | Paper | IF | Citations |
|-----|---|----|-----------|
| 338 | Engineering of fiber-reinforced tissues with anisotropic biodegradable nanofibrous scaffolds. 2006 , 2006, 787-90 | | 11 |
| 337 | Electrospun nanostructured scaffolds for tissue engineering applications. 2007 , 2, 929-42 | | 161 |
| 336 | The effect of nanofiber alignment on the maturation of engineered meniscus constructs. 2007 , 28, 1967-77 | | 302 |
| 335 | Electrospinning: applications in drug delivery and tissue engineering. 2008 , 29, 1989-2006 | | 2436 |
| 334 | The potential to improve cell infiltration in composite fiber-aligned electrospun scaffolds by the selective removal of sacrificial fibers. 2008 , 29, 2348-58 | | 494 |
| 333 | Electrospinning of photocrosslinked and degradable fibrous scaffolds. 2008 , 87, 1034-43 | | 56 |
| 332 | Use of electrospinning technique for biomedical applications. 2008 , 49, 5603-5621 | | 1337 |
| 331 | Tissue-to-cellular level deformation coupling in cell micro-integrated elastomeric scaffolds. 2008 , 29, 3228-36 | | 69 |
| 330 | Electrospinning nanosuspensions loaded with passivated Au nanoparticles. 2008 , 64, 8476-8483 | | 11 |
| 329 | Electrospun nanofiber scaffolds: engineering soft tissues. 2008 , 3, 034002 | | 451 |
| 328 | Advancing tissue engineering by using electrospun nanofibers. 2008 , 3, 547-74 | | 55 |
| 327 | Intervertebral disc tissue engineering using a novel hyaluronic acid-nanofibrous scaffold (HANFS) amalgam. 2008 , 14, 1527-37 | | 156 |
| 326 | Multifunctional nanofibrous scaffold for tissue engineering. 2008 , 3, 329-345 | | 17 |
| 325 | Enhanced composite electrospun nanofiber scaffolds for use in drug delivery. 2008 , 5, 1093-106 | | 62 |
| 324 | Electrospinning: processing technique for tissue engineering scaffolding. 2008 , 53, 257-274 | | 125 |
| 323 | References. 329-387 | | |
| 322 | Functions and Requirements of Synthetic Scaffolds in Tissue Engineering. 2008 , 53-86 | | 4 |

| | | |
|-----|--|----------|
| 321 | ISSLS prize winner: integrating theoretical and experimental methods for functional tissue engineering of the annulus fibrosus. 2008 , 33, 2691-701 | 59 |
| 320 | . 2008 , | 175 |
| 319 | Scaffold stiffness influences cell behavior: opportunities for skeletal tissue engineering. 2008 , 2, 103-9 | 129 |
| 318 | Influence of poly-(L-lactic acid) nanofiber functionalization on maximum load, Young's modulus, and strain of nanofiber scaffolds before and after cultivation of osteoblasts: an in vitro study. 2009 , 9, 1382-93 | 8 |
| 317 | Chondrogenic differentiation of human mesenchymal stem cells on oriented nanofibrous scaffolds: engineering the superficial zone of articular cartilage. 2009 , 15, 913-21 | 186 |
| 316 | Fabrication and modeling of dynamic multipolymer nanofibrous scaffolds. 2009 , 131, 101012 | 68 |
| 315 | Novel nanofiber-based scaffold for rotator cuff repair and augmentation. 2009 , 15, 115-26 | 230 |
| 314 | Meniscus tissue engineering on the nanoscale: from basic principles to clinical application. 2009 , 22, 45-59 | 25 |
| 313 | New directions in nanofibrous scaffolds for soft tissue engineering and regeneration. 2009 , 6, 515-32 | 90 |
| 312 | Anisotropic Porous Biodegradable Scaffolds for Musculoskeletal Tissue Engineering. 2009 , 2, 1674-1696 | 38 |
| 311 | Engineering on the straight and narrow: the mechanics of nanofibrous assemblies for fiber-reinforced tissue regeneration. 2009 , 15, 171-93 | 166 |
| 310 | Degradable polymers and polymer composites for tissue engineering. 2009 , 28-60 | 3 |
| 309 | Tissue engineering with meniscus cells derived from surgical debris. 2009 , 17, 336-45 | 100 |
| 308 | Progress in the field of electrospinning for tissue engineering applications. 2009 , 21, 3343-51 | 395 |
| 307 | Aligned PLGA/HA nanofibrous nanocomposite scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 305-15 | 10.8 309 |
| 306 | Optimization strategies for electrospun silk fibroin tissue engineering scaffolds. 2009 , 30, 3058-67 | 172 |
| 305 | Nanofibrous composites for tissue engineering applications. 2009 , 1, 369-90 | 67 |
| 304 | Nano-hydroxyapatite/polyamide66 composite tissue-engineering scaffolds with anisotropy in morphology and mechanical behaviors. 2009 , 47, 658-669 | 38 |

| | | | |
|-----|---|-----|------|
| 303 | Complexity in biomaterials for tissue engineering. 2009 , 8, 457-70 | | 1340 |
| 302 | The application of nanofibrous scaffolds in neural tissue engineering. 2009 , 61, 1055-64 | | 274 |
| 301 | Electrospun scaffolds for stem cell engineering. 2009 , 61, 1084-96 | | 254 |
| 300 | Fabrication and characterization of pro-survival growth factor releasing, anisotropic scaffolds for enhanced mesenchymal stem cell survival/growth and orientation. <i>Biomacromolecules</i> , 2009 , 10, 2609-18 ^{6.9} | | 65 |
| 299 | Synthetic polymer scaffolds for tissue engineering. 2009 , 38, 1139-51 | | 575 |
| 298 | Microenvironmental Determinants of Stem Cell Fate. 2009 , 647-663 | | |
| 297 | Bioengineering challenges for heart valve tissue engineering. 2009 , 11, 289-313 | | 208 |
| 296 | The bladder extracellular matrix. Part II: regenerative applications. 2009 , 6, 612-21 | | 32 |
| 295 | Innovative strategies for treatment of soft tissue injuries in human and animal athletes. 2009 , 54, 150-165 | | 6 |
| 294 | Orthopedic interface tissue engineering for the biological fixation of soft tissue grafts. 2009 , 28, 157-76 | | 84 |
| 293 | Use of an insulating mask for controlling anisotropy in multilayer electrospun scaffolds for tissue engineering. 2010 , 20, 8962-8968 | | 15 |
| 292 | Cell delivery therapeutics for musculoskeletal regeneration. 2010 , 62, 765-83 | | 92 |
| 291 | Aligned chitosan-based nanofibers for enhanced myogenesis. 2010 , 20, 8904 | | 79 |
| 290 | Tissue engineering strategies for the regeneration of orthopedic interfaces. 2010 , 38, 2142-54 | | 155 |
| 289 | Electrospinning of small diameter 3-D nanofibrous tubular scaffolds with controllable nanofiber orientations for vascular grafts. 2010 , 21, 3207-15 | | 125 |
| 288 | Aligned poly(L-lactic-co-ε-caprolactone) electrospun microfibers and knitted structure: a novel composite scaffold for ligament tissue engineering. 2010 , 94, 1270-82 | | 36 |
| 287 | PLGA nanofiber-coated silk microfibrillar scaffold for connective tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2010 , 95, 19-28 | 3.5 | 83 |
| 286 | Mechanical design criteria for intervertebral disc tissue engineering. <i>Journal of Biomechanics</i> , 2010 , 43, 1017-30 | 2.9 | 168 |

| | | | |
|-----|--|------|-----|
| 285 | On the biomechanical function of scaffolds for engineering load-bearing soft tissues. <i>Acta Biomaterialia</i> , 2010 , 6, 2365-81 | 10.8 | 105 |
| 284 | Influences of tensile load on in vitro degradation of an electrospun poly(L-lactide-co-glycolide) scaffold. <i>Acta Biomaterialia</i> , 2010 , 6, 2991-6 | 10.8 | 48 |
| 283 | An anisotropic nanofiber/microsphere composite with controlled release of biomolecules for fibrous tissue engineering. 2010 , 31, 4113-20 | | 103 |
| 282 | The influence of an aligned nanofibrous topography on human mesenchymal stem cell fibrochondrogenesis. 2010 , 31, 6190-200 | | 83 |
| 281 | From surfactant adsorption kinetics to asymmetric nanomembrane mechanics: pendant drop experiments with subphase exchange. 2010 , 161, 29-47 | | 39 |
| 280 | Multiscale topological guidance for cell alignment via direct laser writing on biodegradable polymer. 2010 , 16, 1011-21 | | 55 |
| 279 | Ligament-derived matrix stimulates a ligamentous phenotype in human adipose-derived stem cells. 2010 , 16, 2307-19 | | 32 |
| 278 | Novel Biomimetic Scaffold for Tendon/Ligament Tissue Engineering. 2010 , | | |
| 277 | Uniaxial strain regulates morphogenesis, gene expression, and tissue strength in engineered skin. 2010 , 16, 1083-92 | | 50 |
| 276 | Nanoscaffold based stem cell regeneration therapy: recent advancement and future potential. 2010 , 10, 1649-61 | | 23 |
| 275 | Designing biomimetic scaffolds for bone regeneration: why aim for a copy of mature tissue properties if nature uses a different approach?. 2010 , 6, 4976 | | 72 |
| 274 | Electrospun synthetic polymer scaffold for cartilage repair without cultured cells in an animal model. 2010 , 26, 375-83 | | 39 |
| 273 | Dynamic tensile loading improves the functional properties of mesenchymal stem cell-laden nanofiber-based fibrocartilage. 2011 , 17, 1445-55 | | 87 |
| 272 | Preliminary investigation of airgap electrospun silk-fibroin-based structures for ligament analogue engineering. 2011 , 22, 1253-73 | | 30 |
| 271 | Electrospinning of Biocompatible Polymers and Their Potentials in Biomedical Applications. 2011 , 213-239 | | 47 |
| 270 | Design, fabrication and characterization of PCL electrospun scaffolds—review. 2011 , 21, 9419 | | 424 |
| 269 | Aligned hybrid silk scaffold for enhanced differentiation of mesenchymal stem cells into ligament fibroblasts. 2011 , 17, 687-703 | | 68 |
| 268 | Highly Aligned Polymer Nanofiber Structures: Fabrication and Applications in Tissue Engineering. 2011 , 171-212 | | 26 |

| | | | |
|-----|--|------|-----|
| 267 | Next generation of electrosprayed fibers for tissue regeneration. 2011 , 17, 125-42 | | 52 |
| 266 | Effective combination of aligned nanocomposite nanofibers and human unrestricted somatic stem cells for bone tissue engineering. 2011 , 32, 626-36 | | 45 |
| 265 | Facile synthesis of anisotropic porous chitosan/hydroxyapatite scaffolds for bone tissue engineering. 2011 , 21, 12015 | | 31 |
| 264 | Microscale versus nanoscale scaffold architecture for mesenchymal stem cell chondrogenesis. 2011 , 17, 831-40 | | 50 |
| 263 | Introduction. 2011 , 1-5 | | |
| 262 | Transplantation of nanostructured composite scaffolds results in the regeneration of chronically injured spinal cords. 2011 , 5, 227-36 | | 149 |
| 261 | Biomaterials for Replacement and Repair of the Meniscus and Annulus Fibrosus. 2011 , 317-332 | | |
| 260 | Fiber angle and aspect ratio influence the shear mechanics of oriented electrospun nanofibrous scaffolds. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2011 , 4, 1627-36 | 4.1 | 53 |
| 259 | The knee meniscus: structure-function, pathophysiology, current repair techniques, and prospects for regeneration. 2011 , 32, 7411-31 | | 597 |
| 258 | Polymeric nanofibers in tissue engineering. 2011 , 17, 349-64 | | 236 |
| 257 | Effects of UV photofunctionalization on the nanotopography enhanced initial bioactivity of titanium. <i>Acta Biomaterialia</i> , 2011 , 7, 3679-91 | 10.8 | 40 |
| 256 | Fiber stretch and reorientation modulates mesenchymal stem cell morphology and fibrous gene expression on oriented nanofibrous microenvironments. 2011 , 39, 2780-90 | | 40 |
| 255 | Biomimetic method for combining the nucleus pulposus and annulus fibrosus for intervertebral disc tissue engineering. 2011 , 5, e179-87 | | 48 |
| 254 | The influence of patterned nanofiber meshes on human mesenchymal stem cell osteogenesis. 2011 , 11, 978-87 | | 43 |
| 253 | Elastomeric electrospun polyurethane scaffolds: the interrelationship between fabrication conditions, fiber topology, and mechanical properties. 2011 , 23, 106-11 | | 68 |
| 252 | Tissue engineering of annulus fibrosus using electrospun fibrous scaffolds with aligned polycaprolactone fibers. 2011 , 99, 564-75 | | 43 |
| 251 | Biohybrid nanofiber constructs with anisotropic biomechanical properties. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2011 , 96, 276-86 | 3.5 | 47 |
| 250 | Mechano-topographic modulation of stem cell nuclear shape on nanofibrous scaffolds. <i>Acta Biomaterialia</i> , 2011 , 7, 57-66 | 10.8 | 76 |

| | | | |
|-----|---|------|-----|
| 249 | Gradient biomaterials for soft-to-hard interface tissue engineering. <i>Acta Biomaterialia</i> , 2011 , 7, 1441-51 | 10.8 | 295 |
| 248 | The stimulation of the cardiac differentiation of mesenchymal stem cells in tissue constructs that mimic myocardium structure and biomechanics. 2011 , 32, 5568-80 | | 105 |
| 247 | Utilizing NaCl to increase the porosity of electrospun materials. 2011 , 31, 30-36 | | 69 |
| 246 | Statistical model with two order parameters for ductile and soft fiber bundles in nanoscience and biomaterials. 2011 , 83, 046126 | | 26 |
| 245 | Nanostructured biomaterials for artificial tissues and organs. 2011 , 236-269 | | 1 |
| 244 | On mechanically induced degradation of fiber-reinforced hyperelastic materials. 2011 , 16, 406-434 | | 12 |
| 243 | Synthetic/Biopolymer Nanofibrous Composites as Dynamic Tissue Engineering Scaffolds. 2011 , 101-130 | | 5 |
| 242 | Modeling the Elasticity of Oriented Electrospun Nano-Fibrous Scaffold. 2011 , 467-469, 1241-1244 | | |
| 241 | Harnessing cellBiomaterial interactions for osteochondral tissue regeneration. 2012 , 126, 67-104 | | 3 |
| 240 | Cartilage tissue regeneration. 2011 , 111-126 | | 1 |
| 239 | The Mechanics of Native and Engineered Cardiac Soft Tissues. 2011 , 113-132 | | 0 |
| 238 | Nucleus regeneration. 2012 , 563-581 | | |
| 237 | Nanocomposites for cartilage regeneration. 2012 , 624-661 | | 1 |
| 236 | Protocols for Biomaterial Scaffold Fabrication. 2012 , 1-23 | | 6 |
| 235 | Hydrogel-Based Platforms for the Regeneration of Osteochondral Tissue and Intervertebral Disc. <i>Polymers</i> , 2012 , 4, 1590-1612 | 4-5 | 44 |
| 234 | Strategic design and fabrication of engineered scaffolds for articular cartilage repair. 2012 , 3, 799-838 | | 130 |
| 233 | Strategies to Engineer Electrospun Scaffold Architecture and Function. 2012 , 291-308 | | |
| 232 | Bioactive Surface Modi?cations for Dental and Orthopedic Implants. 2012 , 148-183 | | |

| | | | |
|-----|---|------|-----|
| 231 | Response of human mesenchymal stem cells (hMSCs) to the topographic variation of poly(3-hydroxybutyrate-co-3-hydroxyhexanoate) (PHBHHx) films. 2012 , 23, 1-26 | | 21 |
| 230 | Electrospun fibrous mats on lithographically micropatterned collectors to control cellular behaviors. 2012 , 28, 17134-42 | | 42 |
| 229 | Sacrificial nanofibrous composites provide instruction without impediment and enable functional tissue formation. 2012 , 109, 14176-81 | | 132 |
| 228 | Regulating synthetic gene networks in 3D materials. 2012 , 109, 15217-22 | | 31 |
| 227 | Fiber-aligned polymer scaffolds for rotator cuff repair in a rat model. <i>Journal of Shoulder and Elbow Surgery</i> , 2012 , 21, 245-50 | 4-3 | 63 |
| 226 | Biomimetic scaffold design for functional and integrative tendon repair. <i>Journal of Shoulder and Elbow Surgery</i> , 2012 , 21, 266-77 | 4-3 | 90 |
| 225 | Bioinspired Nanomaterials for Tissue Engineering. 2012 , | | |
| 224 | Biomedical Applications of Polymeric Nanofibers. 2012 , | | 16 |
| 223 | Microstructural manipulation of electrospun scaffolds for specific bending stiffness for heart valve tissue engineering. <i>Acta Biomaterialia</i> , 2012 , 8, 4268-77 | 10.8 | 66 |
| 222 | Form Follows Function: Advances in Trilayered Structure Replication for Aortic Heart Valve Tissue Engineering. 2012 , 3, 179-202 | | 28 |
| 221 | Fabrication and characterization of three-dimensional electrospun scaffolds for bone tissue engineering. 2012 , 100, 2097-105 | | 21 |
| 220 | Electrospun nanofibers for regenerative medicine. <i>Advanced Healthcare Materials</i> , 2012 , 1, 10-25 | 10.1 | 389 |
| 219 | Fabrication and evaluation of biomimetic-synthetic nanofibrous composites for soft tissue regeneration. 2012 , 347, 803-13 | | 21 |
| 218 | Determination of tensile strength of electrospun single nanofibers through modeling tensile behavior of the nanofibrous mat. 2012 , 43, 15-21 | | 34 |
| 217 | The impact of PLGA scaffold orientation on in vitro cartilage regeneration. 2012 , 33, 2926-35 | | 93 |
| 216 | Functional attachment of soft tissues to bone: development, healing, and tissue engineering. 2013 , 15, 201-26 | | 249 |
| 215 | Tuning Molecular Adhesion via Material Anisotropy. 2013 , 23, n/a-n/a | | 8 |
| 214 | Electrospinning multi-layered nano-solenoid and reticular micro-tubular structure on a microfiber. 2013 , 98, 153-156 | | 4 |

| | | | |
|-----|---|------|-----|
| 213 | Investigation of 2D and 3D electrospun scaffolds intended for tendon repair. 2013 , 24, 1605-14 | | 64 |
| 212 | Enhanced human bone marrow mesenchymal stem cell functions in novel 3D cartilage scaffolds with hydrogen treated multi-walled carbon nanotubes. 2013 , 24, 365102 | | 53 |
| 211 | Regulation of the osteogenesis of pre-osteoblasts by spatial arrangement of electrospun nanofibers in two- and three-dimensional environments. 2013 , 9, 1283-92 | | 52 |
| 210 | Multilayered electrospun scaffolds for tendon tissue engineering. 2013 , 19, 2594-604 | | 84 |
| 209 | Electrospun Nanofibers for Regenerative Medicine. 2013 , 265-295 | | |
| 208 | Industrial Upscaling of Electrospinning and Applications of Polymer Nanofibers: A Review. 2013 , 298, 504-520 | | 619 |
| 207 | The influence and interactions of substrate thickness, organization and dimensionality on cell morphology and migration. <i>Acta Biomaterialia</i> , 2013 , 9, 5502-10 | 10.8 | 29 |
| 206 | Mechanically improved electrospun PCL biocomposites reinforced with a collagen coating process: preparation, physical properties, and cellular activity. 2013 , 36, 205-14 | | 9 |
| 205 | Organized nanofibrous scaffolds that mimic the macroscopic and microscopic architecture of the knee meniscus. <i>Acta Biomaterialia</i> , 2013 , 9, 4496-504 | 10.8 | 67 |
| 204 | The guidance of stem cell differentiation by substrate alignment and mechanical stimulation. 2013 , 34, 1942-53 | | 192 |
| 203 | Braided nanofibrous scaffold for tendon and ligament tissue engineering. 2013 , 19, 1265-74 | | 141 |
| 202 | Electrospun polycaprolactone nano-fibers support growth of human mesenchymal stem cells. 2013 , | | 1 |
| 201 | Aligned electrospun siloxane-doped vaterite/poly(L-lactide) composite fibremats: evaluation of their tensile strength and cell compatibility. 2013 , 24, 2096-109 | | 1 |
| 200 | Forward light scattering method for structural characterization of electrospun fibers. 2013 , | | 0 |
| 199 | Alignment of Cells and Extracellular Matrix Within Tissue- Engineered Substitutes. 2013 , | | 19 |
| 198 | Electrospun micro/nanofibrous scaffolds. 104-132 | | |
| 197 | Engineering tissue-to-tissue interfaces. 514-533 | | |
| 196 | Poly (?-caprolactone) Fiber: An Overview. 2014 , 9, 155892501400900 | | 36 |

| | | | |
|-----|--|------|----|
| 195 | . 2014 , | | 6 |
| 194 | Vaginal Drug Delivery. 2014 , 607-651 | | 2 |
| 193 | Meniscal Injuries. 2014 , | | 1 |
| 192 | Fabrication of three-dimensional porous scaffolds with controlled filament orientation and large pore size via an improved E-jetting technique. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2014 , 102, 651-8 | 3.5 | 35 |
| 191 | Electrospun meshes possessing region-wise differences in fiber orientation, diameter, chemistry and mechanical properties for engineering bone-ligament-bone tissues. 2014 , 111, 2549-59 | | 40 |
| 190 | Ordered, adherent layers of nanofibers enabled by supramolecular interactions. 2014 , 2, 8110-8115 | | 18 |
| 189 | Development and evaluation of axially aligned nanofibres for blood vessel tissue engineering. 2014 , 8, 640-51 | | 35 |
| 188 | Artificial neural network for modeling the elastic modulus of electrospun polycaprolactone/gelatin scaffolds. <i>Acta Biomaterialia</i> , 2014 , 10, 709-21 | 10.8 | 88 |
| 187 | Polymeric scaffolds for cardiac tissue engineering: requirements and fabrication technologies. 2014 , 63, 2-11 | | 64 |
| 186 | Substrate topography determines the fate of chondrogenesis from human mesenchymal stem cells resulting in specific cartilage phenotype formation. 2014 , 10, 1507-16 | | 85 |
| 185 | Focal Controlled Drug Delivery. 2014 , | | 15 |
| 184 | Nanocomposite scaffold for chondrocyte growth and cartilage tissue engineering: effects of carbon nanotube surface functionalization. 2014 , 20, 2305-15 | | 56 |
| 183 | A Biomimetic Approach toward the Fabrication of Epithelial-like Tissue. 2014 , 175-194 | | |
| 182 | Stem cell delivery systems inspired by tissue-specific niches. 2014 , 193, 42-50 | | 22 |
| 181 | In vitro and in vivo cytocompatibility of electrospun nanofiber scaffolds for tissue engineering applications. 2014 , 4, 31618-31642 | | 28 |
| 180 | Osteochondral tissue engineering with biphasic scaffold: current strategies and techniques. 2014 , 20, 468-76 | | 87 |
| 179 | A novel electrospun-aligned nanoyarn-reinforced nanofibrous scaffold for tendon tissue engineering. 2014 , 122, 270-276 | | 77 |
| 178 | Textile-templated electrospun anisotropic scaffolds for regenerative cardiac tissue engineering. 2014 , 35, 8540-52 | | 72 |

| | | |
|-----|--|--------|
| 177 | Electrospun membranes: control of the structure and structure related applications in tissue regeneration and drug delivery. 2014 , 2, 5492-5510 | 85 |
| 176 | Tissue Engineering for Regeneration and Replacement of the Intervertebral Disc. 2014 , 1223-1251 | 3 |
| 175 | Fabrication of micro-structures of poly [(R)-3-hydroxybutyric acid] by electro-spraying/-spinning: understanding the influence of polymer concentration and solvent type. 2014 , 49, 4246-4260 | 9 |
| 174 | Intervertebral disc and stem cells cocultured in biomimetic extracellular matrix stimulated by cyclic compression in perfusion bioreactor. 2014 , 14, 2127-40 | 25 |
| 173 | Tenogenic differentiation of human induced pluripotent stem cell-derived mesenchymal stem cells dictated by properties of braided submicron fibrous scaffolds. 2014 , 35, 6907-17 | 52 |
| 172 | Chapter 9: Cell Behavior on Electrospun Scaffolds: Factors at Play on Nanoscale. 2014 , 393-434 | 1 |
| 171 | Chapter 10: The Convergence of Biomimetic Nanofibers and Cells for Functional Tissue Formation. 2014 , 435-471 | |
| 170 | Electrospinning Techniques to Control Deposition and Structural Alignment of Nanofibrous Scaffolds for Cellular Orientation and Cytoskeletal Reorganization. 2014 , 285-304 | 1 |
| 169 | Functions and Requirements of Synthetic Scaffolds in Tissue Engineering. 2014 , 63-102 | 1 |
| 168 | A Novel Method to Produce an Artificial Common Bile Duct Using Electrospinning Technique. 2015 , 11, 166-170 | 3 |
| 167 | The Effect of Rotating Collector Design on Tensile Properties and Morphology of Electrospun Polycaprolactone Fibres. 2015 , 27, 02002 | 7 |
| 166 | Optimization of blend parameters for the fabrication of polycaprolactone-silicon based ormoglass nanofibers by electrospinning. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 1287-93 | 3.5 10 |
| 165 | Stem cells rejuvenate radiation-impaired vasculogenesis in murine distraction osteogenesis. 2015 , 135, 799-806 | 25 |
| 164 | Engineering Anisotropic 2D and 3D Structures for Tendon Repair and Regeneration. 2015 , 225-242 | 3 |
| 163 | Electrospun anisotropic architectures and porous structures for tissue engineering. 2015 , 3, 5389-5410 | 62 |
| 162 | Orthogonally oriented scaffolds with aligned fibers for engineering intestinal smooth muscle. 2015 , 61, 75-84 | 32 |
| 161 | Progress in material design for biomedical applications. 2015 , 112, 14444-51 | 174 |
| 160 | Meniscus tissue engineering using a novel combination of electrospun scaffolds and human meniscus cells embedded within an extracellular matrix hydrogel. 2015 , 33, 572-83 | 59 |

| | | | |
|-----|---|------|-----|
| 159 | Electrospun polycaprolactone matrices with tensile properties suitable for soft tissue engineering. 2016 , 44, 878-84 | | 18 |
| 158 | From repair to regeneration: biomaterials to reprogram the meniscus wound microenvironment. 2015 , 43, 529-42 | | 38 |
| 157 | A radiopaque electrospun scaffold for engineering fibrous musculoskeletal tissues: Scaffold characterization and in vivo applications. <i>Acta Biomaterialia</i> , 2015 , 26, 97-104 | 10.8 | 40 |
| 156 | Aligned multilayered electrospun scaffolds for rotator cuff tendon tissue engineering. <i>Acta Biomaterialia</i> , 2015 , 24, 117-26 | 10.8 | 134 |
| 155 | Mechanical biocompatibility of highly deformable biomedical materials. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 48, 100-124 | 4.1 | 64 |
| 154 | Surface grafting of chitosan shell, polycaprolactone core fiber meshes to confer bioactivity. 2015 , 30, 258-274 | | 10 |
| 153 | Nanofibers for ligament and tendon tissue regeneration. 2015 , 91-118 | | 2 |
| 152 | In Vitro Repair of Meniscal Radial Tear Using Aligned Electrospun Nanofibrous Scaffold. 2015 , 21, 2066-75 | | 28 |
| 151 | Pore orientation mediated control of mechanical behavior of scaffolds and its application in cartilage-mimetic scaffold design. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2015 , 51, 169-83 | 4.1 | 58 |
| 150 | Bilayered vascular graft derived from human induced pluripotent stem cells with biomimetic structure and function. 2015 , 10, 745-55 | | 40 |
| 149 | Scaffolds drive meniscus tissue engineering. 2015 , 5, 77851-77859 | | 21 |
| 148 | Stem Cell Differentiation Toward the Myogenic Lineage for Muscle Tissue Regeneration: A Focus on Muscular Dystrophy. 2015 , 11, 866-84 | | 32 |
| 147 | Electrospinning of polymer nanofibers for tissue regeneration. 2015 , 46, 1-24 | | 320 |
| 146 | Oriented matrix promotes directional tubulogenesis. <i>Acta Biomaterialia</i> , 2015 , 11, 264-73 | 10.8 | 8 |
| 145 | Micro-computed tomography image-based evaluation of 3D anisotropy degree of polymer scaffolds. 2015 , 18, 446-55 | | 7 |
| 144 | Micropatterned coculture of vascular endothelial and smooth muscle cells on layered electrospun fibrous mats toward blood vessel engineering. 2015 , 103, 1949-60 | | 7 |
| 143 | Engineering blood vessels through micropatterned co-culture of vascular endothelial and smooth muscle cells on bilayered electrospun fibrous mats with pDNA inoculation. <i>Acta Biomaterialia</i> , 2015 , 11, 114-25 | 10.8 | 41 |
| 142 | Current Status of Tissue-Engineered Scaffolds for Rotator Cuff Repair. 2016 , 31, 91-97 | | 22 |

| | | | |
|-----|---|------|-----|
| 141 | Novel PGS/PCL electrospun fiber mats with patterned topographical features for cardiac patch applications. 2016 , 69, 569-76 | | 46 |
| 140 | Suppressing Electron Exposure Artifacts: An Electron Scanning Paradigm with Bayesian Machine Learning. 2016 , 22, 778-88 | | 12 |
| 139 | Mechanical properties and cellular response of novel electrospun nanofibers for ligament tissue engineering: Effects of orientation and geometry. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 61, 258-270 | 4.1 | 72 |
| 138 | Biomedical applications of electrospun polycaprolactone fiber mats. 2016 , 27, 1264-1273 | | 62 |
| 137 | Electrospun Polyurethane and Hydrogel Composite Scaffolds as Biomechanical Mimics for Aortic Valve Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2016 , 2, 1546-1558 | 5.5 | 52 |
| 136 | Osteochondral scaffold combined with aligned nanofibrous scaffolds for cartilage regeneration. 2016 , 6, 72246-72255 | | 13 |
| 135 | The influence of specimen thickness and alignment on the material and failure properties of electrospun polycaprolactone nanofiber mats. 2016 , 104, 2794-800 | | 20 |
| 134 | Design of graphene oxide/gelatin electrospun nanocomposite fibers for tissue engineering applications. 2016 , 6, 109150-109156 | | 21 |
| 133 | Aligned core/shell electrospinning of poly(glycerol sebacate)/poly(L-lactic acid) with tuneable structural and mechanical properties. 2016 , 65, 423-429 | | 6 |
| 132 | Articular cartilage: from formation to tissue engineering. 2016 , 4, 734-67 | | 164 |
| 131 | Current Strategies in Osteochondral Repair with Biomaterial Scaffold. 2016 , 387-403 | | 1 |
| 130 | Oriented nanofibrous membranes for tissue engineering applications: Electrospinning with secondary field control. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2016 , 58, 188-198 | 4.1 | 17 |
| 129 | The Horizon of Materiobiology: A Perspective on Material-Guided Cell Behaviors and Tissue Engineering. 2017 , 117, 4376-4421 | | 296 |
| 128 | The effect of electrospinning parameters on the compliance behavior of electrospun polyurethane tube for artificial common bile duct. 2017 , 59, 67-75 | | 3 |
| 127 | Osteogenic differentiation of mesenchymal stem cells using hybrid nanofibers with different configurations and dimensionality. 2017 , 105, 2065-2074 | | 13 |
| 126 | Electrospun Nanofiber Scaffolds and Their Hydrogel Composites for the Engineering and Regeneration of Soft Tissues. 2017 , 1570, 261-278 | | 27 |
| 125 | Mechanical function near defects in an aligned nanofiber composite is preserved by inclusion of disorganized layers: Insight into meniscus structure and function. <i>Acta Biomaterialia</i> , 2017 , 56, 102-109 | 10.8 | 19 |
| 124 | Hybrid polymeric scaffolds prepared by micro and macro approaches. 2017 , 66, 853-860 | | 5 |

| | | | |
|-----|---|-----|-----|
| 123 | Biomaterials for intervertebral disc regeneration and repair. 2017 , 129, 54-67 | | 148 |
| 122 | Crimped Nanofibrous Biomaterials Mimic Microstructure and Mechanics of Native Tissue and Alter Strain Transfer to Cells. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 2869-2876 | 5.5 | 28 |
| 121 | Fabrication and Microstructure Evaluation of Fibrous Composite for Acetabular Labrum Implant. 2017 , 900, 17-22 | | 3 |
| 120 | Cardiomyocyte coculture on layered fibrous scaffolds assembled from micropatterned electrospun mats. 2017 , 81, 500-510 | | 19 |
| 119 | Polymeric Nanobiomaterials. 2017 , 65-84 | | |
| 118 | The Combined Effect of Substrate Stiffness and Surface Topography on Chondrogenic Differentiation of Mesenchymal Stem Cells. 2017 , 23, 43-54 | | 42 |
| 117 | Effects of Structural Variations on the Cellular Response and Mechanical Properties of Biocompatible, Biodegradable, and Porous Smectic Liquid Crystal Elastomers. 2017 , 17, 1600278 | | 22 |
| 116 | Electrospinning versus microfluidic spinning of functional fibers for biomedical applications. 2017 , 114, 121-143 | | 222 |
| 115 | Autologous tendon-derived cell-seeded nanofibrous scaffolds improve rotator cuff repair in an age-dependent fashion. 2017 , 35, 1250-1257 | | 18 |
| 114 | Electroactive nanostructured scaffold produced by controlled deposition of PPy on electrospun PCL fibres. 2017 , 43, 1235-1251 | | 28 |
| 113 | Effect of polyvinylidene fluoride electrospun fiber orientation on neural stem cell differentiation. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2017 , 105, 2376-2393 | 3.5 | 50 |
| 112 | Relationships between mechanical properties and drug release from electrospun fibers of PCL and PLGA blends. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2017 , 65, 724-733 | 4.1 | 122 |
| 111 | Optimization of Polymer-ECM Composite Scaffolds for Tissue Engineering: Effect of Cells and Culture Conditions on Polymeric Nanofiber Mats. 2017 , 8, | | 24 |
| 110 | 3.11 The Mechanics of Native and Engineered Cardiac Soft Tissues. 2017 , 197-218 | | |
| 109 | 6.12 Tissue Engineering Approaches to Regeneration of Anterior Cruciate Ligament ?. 2017 , 194-215 | | 1 |
| 108 | Neurotrophic support by traumatized muscle-derived multipotent progenitor cells: Role of endothelial cells and Vascular Endothelial Growth Factor-A. 2017 , 8, 226 | | 11 |
| 107 | Electrospun materials for bone and tendon/ligament tissue engineering. 2017 , 233-260 | | 2 |
| 106 | Electrospinning and surface modification methods for functionalized cell scaffolds. 2017 , 201-225 | | 4 |

| | | | |
|-----|---|------|----|
| 105 | Micro- and Nanosurface Patterning Technologies. 2017 , 375-390 | | 2 |
| 104 | Mechanical Considerations for Electrospun Nanofibers in Tendon and Ligament Repair. <i>Advanced Healthcare Materials</i> , 2018 , 7, e1701277 | 10.1 | 34 |
| 103 | Physiology and Engineering of the Graded Interfaces of Musculoskeletal Junctions. 2018 , 20, 403-429 | | 24 |
| 102 | Endogenous biological factors modulated by substrate stiffness regulate endothelial differentiation of mesenchymal stem cells. 2018 , 106, 1595-1603 | | 10 |
| 101 | Nano Fibrous Scaffolds for Tissue Engineering Application. 2018 , 1-28 | | 0 |
| 100 | Fabrication of a mechanically anisotropic poly(glycerol sebacate) membrane for tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2018 , 106, 760-770 | 3.5 | 14 |
| 99 | Modulus of elasticity of randomly and aligned polymeric scaffolds with fiber size dependency. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2018 , 77, 314-320 | 4.1 | 12 |
| 98 | Relation between fiber orientation and mechanical properties of nano-engineered poly(vinylidene fluoride) electrospun composite fiber mats. 2018 , 139, 146-154 | | 42 |
| 97 | Influence of Nanofiber Orientation on Morphological and Mechanical Properties of Electrospun Chitosan Mats. 2018 , 2018, 3651480 | | 36 |
| 96 | Micropatterned Cell Orientation of Cyanobacterial Liquid-Crystalline Hydrogels. 2018 , 10, 44834-44843 | | 6 |
| 95 | Design of electrospun fibrous patches for myocardium regeneration. 2018 , 221-250 | | 3 |
| 94 | Tuning Fiber Alignment to Achieve Mechanical Anisotropy on Polymeric Electrospun Scaffolds for Cardiovascular Tissue Engineering. 2018 , 07, | | 2 |
| 93 | Magnetic Induction of Multiscale Anisotropy in Macroporous Alginate Scaffolds. 2018 , 18, 7314-7322 | | 19 |
| 92 | Functional regeneration of tendons using scaffolds with physical anisotropy engineered via microarchitectural manipulation. 2018 , 4, eaat4537 | | 35 |
| 91 | Hydrogels. 2018 , | | 14 |
| 90 | Engineering biologically extensible hydrogels using photolithographic printing. <i>Acta Biomaterialia</i> , 2018 , 75, 52-62 | 10.8 | 21 |
| 89 | The fabrication of biomineralized fiber-aligned PLGA scaffolds and their effect on enhancing osteogenic differentiation of UCMSC cells. 2018 , 29, 117 | | 9 |
| 88 | Textile technologies for 3D scaffold engineering. 2018 , 175-201 | | 4 |

| | | | | |
|----|---|-----|--|-----|
| 87 | Biomaterials in Tendon and Skeletal Muscle Tissue Engineering: Current Trends and Challenges. 2018 , 11, | | | 73 |
| 86 | Anisotropic cytocompatible electrospun scaffold for tendon tissue engineering elicits limited inflammatory response in vitro. 2018 , 33, 127-139 | | | 8 |
| 85 | Electrospinning of Hydrogels for Biomedical Applications. 2018 , 219-258 | | | 5 |
| 84 | Modelling and Optimization of Polycaprolactone Ultrafine-Fibres Electrospinning Process Using Response Surface Methodology. 2018 , 11, | | | 14 |
| 83 | Novel phase separated polycaprolactone/collagen scaffolds for cartilage tissue engineering. 2018 , 13, 051001 | | | 28 |
| 82 | 3D biodegradable scaffolds of polycaprolactone with silicate-containing hydroxyapatite microparticles for bone tissue engineering: high-resolution tomography and in vitro study. 2018 , 8, 8907 | | | 64 |
| 81 | Synthetic scaffolds for musculoskeletal tissue engineering: cellular responses to fiber parameters. 2019 , 4, 15 | | | 75 |
| 80 | Polymer Fiber Scaffolds for Bone and Cartilage Tissue Engineering. 2019 , 29, 1903279 | | | 105 |
| 79 | Parametric control of fiber morphology and tensile mechanics in scaffolds with high aspect ratio geometry produced via melt electrowriting for musculoskeletal soft tissue engineering. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2019 , 99, 153-160 | 4.1 | | 13 |
| 78 | Nanofibrous Scaffolds for Tissue Engineering Application. 2019 , 665-691 | | | |
| 77 | Aberrant mechanosensing in injured intervertebral discs as a result of boundary-constraint disruption and residual-strain loss. 2019 , 3, 998-1008 | | | 24 |
| 76 | Pure iso-type systems. 2019 , 29, | | | 3 |
| 75 | Hybrid Polyester-Hydrogel Electrospun Scaffolds for Tissue Engineering Applications. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019 , 7, 231 | 5.8 | | 7 |
| 74 | Use of Aligned Microscale Sacrificial Fibers in Creating Biomimetic, Anisotropic Poly(glycerol sebacate) Scaffolds. <i>Polymers</i> , 2019 , 11, | 4.5 | | 5 |
| 73 | Impact of Mechanobiological Perturbation in Cartilage Tissue Engineering. 2019 , 379-392 | | | 2 |
| 72 | Aligned microchannel polymer-nanotube composites for peripheral nerve regeneration: Small molecule drug delivery. 2019 , 296, 54-67 | | | 35 |
| 71 | Prefabricated and Self-Setting Cement Laminates. 2019 , 12, | | | 4 |
| 70 | Enhancing Biocompatibility without Compromising Material Properties: An Optimised NaOH Treatment for Electrospun Polycaprolactone Fibres. 2019 , 2019, 1-11 | | | 24 |

| | | | |
|----|---|-----|----|
| 69 | Biomaterials to Mimic and Heal Connective Tissues. 2019 , 31, e1806695 | | 79 |
| 68 | Electrospinning of highly porous yet mechanically functional microfibrillar scaffolds at the human scale for ligament and tendon tissue engineering. 2019 , 14, 035016 | | 23 |
| 67 | Aligned nanofibers of decellularized muscle ECM support myogenic activity in primary satellite cells in vitro. 2019 , 14, 035010 | | 37 |
| 66 | Orchestrated biomechanical, structural, and biochemical stimuli for engineering anisotropic meniscus. 2019 , 11, | | 45 |
| 65 | Mechanical and Cytocompatibility Evaluation of UHMWPE/PCL/Bioglass Fibrous Composite for Acetabular Labrum Implant. 2019 , 12, | | 5 |
| 64 | Chemical Optimization for Functional Ligament Tissue Engineering. 2020 , 26, 102-110 | | 5 |
| 63 | The effect of aligned electrospun fibers and macromolecular crowding in tenocyte culture. 2020 , 157, 225-247 | | 4 |
| 62 | Meniscal tissue repair with nanofibers: future perspectives. 2020 , 15, 2517-2538 | | 4 |
| 61 | Parameter optimization of O ₂ /He atmospheric pressure plasma for surface modification of poly(L-lactic) acid oriented fiber membranes: Improving cell adhesion and proliferation. 2020 , 182, 109763 | | 5 |
| 60 | Nanofiber alignment for biomedical applications. 2020 , | | 2 |
| 59 | Skeletal Muscle Tissue Engineering: Biomaterials-Based Strategies for the Treatment of Volumetric Muscle Loss. 2020 , 7, | | 19 |
| 58 | Nanostructured Biomaterials for Bone Regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 2020 , 8, 922 | 5.8 | 25 |
| 57 | Osteochondral Injury, Management and Tissue Engineering Approaches. 2020 , 8, 580868 | | 10 |
| 56 | Enhancement of hydrophilicity, biocompatibility and biodegradability of poly(ε-caprolactone) electrospun nanofiber scaffolds using poly(ethylene glycol) and poly(L-lactide-co-ε-caprolactone-co-glycolide) as additives for soft tissue engineering. 2020 , 31, 1648-1670 | | 15 |
| 55 | Diversity of Electrospinning Approach for Vascular Implants: Multilayered Tubular Scaffolds. 2020 , 6, 383-397 | | 4 |
| 54 | Repair of Osteochondral Defects With Predifferentiated Mesenchymal Stem Cells of Distinct Phenotypic Character Derived From a Nanotopographic Platform. 2020 , 48, 1735-1747 | | 4 |
| 53 | Etching anisotropic surface topography onto fibrin microthread scaffolds for guiding myoblast alignment. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020 , 108, 2308-2319 | 3.5 | 6 |
| 52 | Piezoelectric Scaffolds as Smart Materials for Neural Tissue Engineering. <i>Polymers</i> , 2020 , 12, | 4.5 | 39 |

| | | |
|----|---|-------|
| 51 | Tissue engineering for regeneration and replacement of the intervertebral disk. 2020 , 937-965 | 1 |
| 50 | Aligned graphene/silk fibroin conductive fibrous scaffolds for guiding neurite outgrowth in rat spinal cord neurons. 2021 , 109, 488-499 | 8 |
| 49 | Nanoscience and nanotechnology in fabrication of scaffolds for tissue regeneration. 2021 , 11, 1-23 | |
| 48 | Tenogenic adipose-derived stem cell sheets with nanoyarn scaffolds for tendon regeneration. 2021 , 119, 111506 | 8 |
| 47 | Diabetic Conditions Confer Metabolic and Structural Modifications to Tissue-Engineered Skeletal Muscle. 2021 , 27, 549-560 | 1 |
| 46 | The Mechanical Properties of PVC Nanofiber Mats Obtained by Electrospinning. 2021 , 9, 2 | 10 |
| 45 | Cell Alignment Modulated by Surface Nano-Topography—Roles of Cell-Matrix and Cell-Cell Interactions. | |
| 44 | Surface-Functionalized Electrospun Nanofibers for Tissue Engineering. 2021 , 315-351 | |
| 43 | Comparative analysis of fiber alignment methods in electrospinning. 2021 , 4, 821-844 | 13 |
| 42 | Optimization of Nanoclay/Polyacrylonitrile Scaffold Using Response Surface Method for Bone Differentiation of Human Mesenchymal Stem Cells. 2021 , 67, 1176-1185 | |
| 41 | 3D Electrospun Nanofiber-Based Scaffolds: From Preparations and Properties to Tissue Regeneration Applications. 2021 , 2021, 8790143 | 7 |
| 40 | Polysaccharides on gelatin-based hydrogels differently affect chondrogenic differentiation of human mesenchymal stromal cells. 2021 , 126, 112175 | 4 |
| 39 | Adipogenic Differentiation Alters Properties of Vascularized Tissue-Engineered Skeletal Muscle. 2021 , | 0 |
| 38 | Nanofiber Biomaterials. 2013 , 977-1010 | 8 |
| 37 | Fibrocartilage Tissue Engineering. 2011 , 363-387 | 1 |
| 36 | Fibrous Scaffolds for Tissue Engineering. 2011 , 47-73 | 6 |
| 35 | Nanofiber composites in skeletal muscle tissue engineering. 2017 , 369-394 | 3 |
| 34 | Electrospinning. <i>Advances in Bioinformatics and Biomedical Engineering Book Series</i> , 48-78 | 0.4 1 |

| | | | |
|----|---|------|---|
| 33 | Electrospun Fiber Alignment Guides Osteogenesis and Matrix Organization Differentially in Two Different Osteogenic Cell Types. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 672959 | 5.8 | 2 |
| 32 | Advances in electrospun scaffolds for meniscus tissue engineering and regeneration. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2021 , | 3.5 | 1 |
| 31 | On the Horizon From the ORS. <i>Journal of the American Academy of Orthopaedic Surgeons, The</i> , 2008 , 16, 57-60 | 4.5 | |
| 30 | Cell-Based Therapies for Musculoskeletal Repair. 2008 , 888-911 | | |
| 29 | Electrospinning Techniques to Control Deposition and Structural Alignment of Nanofibrous Scaffolds for Cellular Orientation and Cytoskeletal Reorganization. 2008 , 243-260 | | |
| 28 | Micro and Nanotechnologies for Tissue Engineering. 2011 , 139-178 | | 1 |
| 27 | Meniscal Scaffolds: Options Post Meniscectomy. 2014 , 45-58 | | |
| 26 | 6.11 Biomaterials for Replacement and Repair of the Meniscus and Annulus Fibrosus. 2017 , 174-193 | | |
| 25 | Osteochondral Repair Using a Hybrid Implant Composed of Stem Cells and Biomaterial. 2017 , 671-682 | | |
| 24 | Nanomaterials Applications in Cartilage Tissue Engineering. 2019 , 81-105 | | |
| 23 | Skeletal muscle tissue engineering. 2022 , 519-553 | | 0 |
| 22 | Three-Dimensional-Printed Flexible Scaffolds Have Tunable Biomimetic Mechanical Properties for Intervertebral Disc Tissue Engineering. <i>ACS Biomaterials Science and Engineering</i> , 2021 , | 5.5 | 4 |
| 21 | Methods to Characterize Electrospun Scaffold Morphology: A Critical Review.. <i>Polymers</i> , 2022 , 14, | 4.5 | 0 |
| 20 | Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <i>European Polymer Journal</i> , 2022 , 165, 111003 | 5.2 | 1 |
| 19 | Engineering in-plane mechanics of electrospun polyurethane scaffolds for cardiovascular tissue applications.. <i>Journal of the Mechanical Behavior of Biomedical Materials</i> , 2022 , 128, 105126 | 4.1 | 1 |
| 18 | Cell Alignment Modulated by Surface Nano-topography - Roles of Cell-Matrix and Cell-Cell Interactions.. <i>Acta Biomaterialia</i> , 2022 , | 10.8 | 2 |
| 17 | The effect of different sizes of cross-linked fibers of biodegradable electrospun poly(ϵ -caprolactone) scaffolds on osteogenic behavior in a rat model in vivo. <i>Journal of Applied Polymer Science</i> , 2022 , 139, 52244 | 2.9 | 0 |
| 16 | Three-Dimensionally Printed Recombinant Three-Dimensionally Printed Recombinant Human Parathyroid Hormone-Soaked Nanofiber Sheet Accelerates Tendon-to-Bone Healing in a Rabbit Model of a Chronic Rotator Cuff Tear.. <i>Journal of Shoulder and Elbow Surgery</i> , 2022 , | 4.3 | |

| | | | |
|----|---|------|---|
| 15 | Continuous Microfiber Wire Mandrel-Less Biofabrication for Soft Tissue Engineering Applications.. <i>Advanced Healthcare Materials</i> , 2022 , e2102613 | 10.1 | |
| 14 | Staggered Nanofiber Scaffolds via Electric-Field-Controlled Assembly for Bone Tissue Regeneration. <i>ACS Applied Nano Materials</i> , | 5.6 | 1 |
| 13 | Data_Sheet_1.PDF. 2019 , | | |
| 12 | Pro-angiogenic Potential of Mesenchymal Stromal Cells Regulated by Matrix Stiffness and Anisotropy Mimicking Right Ventricles.. <i>Biomacromolecules</i> , 2022 , | 6.9 | |
| 11 | Biopolymeric Electrospun Nanofibers for Wound Dressings in Diabetic Patients. 2022 , 207-249 | | |
| 10 | Optimizing the Surface Structural and Morphological Properties of Silk Thin Films via Ultra-Short Laser Texturing for Creation of Muscle Cell Matrix Model. <i>Polymers</i> , 2022 , 14, 2584 | 4.5 | 0 |
| 9 | Polycaprolactone/chlorinated bioglass scaffolds doped with Mg and Li ions: Morphological, physicochemical, and biological analysis. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , | 3.5 | |
| 8 | Nanofibers for the Immunoregulation in Biomedical Applications. | | 1 |
| 7 | Introduction a new structure made of hydroxyapatite and graphene nanoparticles incorporated into PCL/gelatine nano fibrous web as bone scaffold. 1-7 | | 0 |
| 6 | Development of tropoelastin-functionalized anisotropic PCL scaffolds for musculoskeletal tissue engineering. | | 0 |
| 5 | Tuning the Poisson's ratio of poly(ethylene glycol) diacrylate/cellulose nanofibril aerogel scaffold precisely for cultivation of bone marrow mesenchymal stem cell. | | 0 |
| 4 | Magnetic fields enable precise spatial control over electrospun fiber alignment for fabricating complex gradient materials. | | 0 |
| 3 | The Mechanical Properties of Nanocomposites Reinforced with PA6 Electrospun Nanofibers. 2023 , 15, 673 | | 1 |
| 2 | Recent Advancements in Polyurethane-based Tissue Engineering. | | 0 |
| 1 | Nanocomposites for cartilage regeneration. 2023 , 213-260 | | 0 |