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#	Paper	IF	Citations
568	Local Delivery of Dual MicroRNAs in Trilayered Electrospun Grafts for Vascular Regeneration.		
567	Increasing the pore size of electrospun scaffolds. <b>2011</b> , 17, 365-72		182
566	Using Polymeric Scaffolds for Vascular Tissue Engineering. <b>2014</b> , 2014, 1-9		14
565	3D-Printed Biopolymers for Tissue Engineering Application. <b>2014</b> , 2014, 1-13		71
564	Fabrication and characterization of electrospun polylactide/Ericalcium phosphate hybrid meshes for potential applications in hard tissue repair. <b>2014</b> , 15,		4
563	The study of the frequency effect of dynamic compressive loading on primary articular chondrocyte functions using a microcell culture system. <b>2014</b> , 2014, 762570		6
562	Recent advances in application of biosensors in tissue engineering. <b>2014</b> , 2014, 307519		94
561	Nonthrombogenic, biodegradable elastomeric polyurethanes with variable sulfobetaine content. <b>2014</b> , 6, 22796-806		54
560	Biomimetic Scaffolds Containing Chitosan and Hydroxyapatite for Bone Tissue Engineering. <b>2014</b> , 971-973, 21-25		3
559	Electrospun nanofiber scaffolds and plasma polymerization: a promising combination towards complete, stable endothelial lining for vascular grafts. <b>2014</b> , 14, 1084-95		40
558	The effect of thick fibers and large pores of electrospun poly(Etaprolactone) vascular grafts on macrophage polarization and arterial regeneration. <b>2014</b> , 35, 5700-10		290
557	Recent advances in electrospinning technology and biomedical applications of electrospun fibers. <b>2014</b> , 2, 2369-2380		93
556	Engineering of arteries in vitro. <b>2014</b> , 71, 2103-18		88
555	Biomechanical properties of native and tissue engineered heart valve constructs. <b>2014</b> , 47, 1949-63		173
554	In vitro models of tumor vessels and matrix: engineering approaches to investigate transport limitations and drug delivery in cancer. <b>2014</b> , 69-70, 205-216		55
553	Engineering of biomimetic nanofibrous matrices for drug delivery and tissue engineering. <b>2014</b> , 2, 7828	-7848	72
552	Biodegradable poly(ester urethane)urea elastomers with variable amino content for subsequent functionalization with phosphorylcholine. <i>Acta Biomaterialia</i> , <b>2014</b> , 10, 4639-4649	10.8	53

### (2015-2014)

551	engineering. <b>2014</b> , 101, 1165-80		65
550	Microfluidic techniques for development of 3D vascularized tissue. <b>2014</b> , 35, 7308-25		215
549	Luminal surface engineering, 'micro and nanopatterning': potential for self endothelialising vascular grafts?. <b>2014</b> , 47, 566-76		43
548	Functions and Requirements of Synthetic Scaffolds in Tissue Engineering. <b>2014</b> , 63-102		1
547	Injectable Hydrogels for Cardiac Tissue Repair after Myocardial Infarction. <b>2015</b> , 2, 1500122		190
546	Scaffold-free, Human Mesenchymal Stem Cell-Based Tissue Engineered Blood Vessels. <i>Scientific Reports</i> , <b>2015</b> , 5, 15116	4.9	65
545	Polyhydroxybutyrate/valerate/polycaprolactone small-diameter vascular graft: Experimental study of integration into organism. <b>2015</b> ,		1
544	Influence of electrospun scaffolds prepared from distinct polymers on proliferation and viability of endothelial cells. <b>2015</b> ,		
543	Fabrication of triple layered vascular scaffolds by combining electrospinning, braiding, and thermally induced phase separation. <b>2015</b> ,		
542	Electrospun PET-PU scaffolds for vascular tissue engineering. 2015,		3
542 541	Electrospun PET-PU scaffolds for vascular tissue engineering. <b>2015</b> ,  Microfluidic Spinning of Cell-Responsive Grooved Microfibers. <b>2015</b> , 25, 2250-2259		3
541	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. <b>2015</b> , 25, 2250-2259		
541 540	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. <b>2015</b> , 25, 2250-2259  Development of Novel, Bioresorbable, Small-Diameter Electrospun Vascular Grafts. <b>2015</b> , 06,  Biomimetic Hybrid Nanofiber Sheets Composed of RGD Peptide-Decorated PLGA as Cell-Adhesive		104 7
541 540 539	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. 2015, 25, 2250-2259  Development of Novel, Bioresorbable, Small-Diameter Electrospun Vascular Grafts. 2015, 06,  Biomimetic Hybrid Nanofiber Sheets Composed of RGD Peptide-Decorated PLGA as Cell-Adhesive Substrates. 2015, 6, 367-78	8.3	104 7 17
<ul><li>541</li><li>540</li><li>539</li><li>538</li></ul>	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. 2015, 25, 2250-2259  Development of Novel, Bioresorbable, Small-Diameter Electrospun Vascular Grafts. 2015, 06,  Biomimetic Hybrid Nanofiber Sheets Composed of RGD Peptide-Decorated PLGA as Cell-Adhesive Substrates. 2015, 6, 367-78  A Closer Look at Schlemm's Canal Cell Physiology: Implications for Biomimetics. 2015, 6, 963-85  Small diameter electrospun silk fibroin vascular grafts: Mechanical properties, in vitro	8.3	104 7 17
<ul><li>541</li><li>540</li><li>539</li><li>538</li><li>537</li></ul>	Microfluidic Spinning of Cell-Responsive Grooved Microfibers. 2015, 25, 2250-2259  Development of Novel, Bioresorbable, Small-Diameter Electrospun Vascular Grafts. 2015, 06,  Biomimetic Hybrid Nanofiber Sheets Composed of RGD Peptide-Decorated PLGA as Cell-Adhesive Substrates. 2015, 6, 367-78  A Closer Look at Schlemm's Canal Cell Physiology: Implications for Biomimetics. 2015, 6, 963-85  Small diameter electrospun silk fibroin vascular grafts: Mechanical properties, in vitro biodegradability, and in vivo biocompatibility. Materials Science and Engineering C, 2015, 54, 101-11  Surface modification and endothelialization of biomaterials as potential scaffolds for vascular	8.3	104 7 17 17 107

533	An electrospun strong PCL/PU composite vascular graft with mechanical anisotropy and cyclic stability. <b>2015</b> , 3, 4782-4787	43
532	Electrospun scaffolds of silk fibroin and poly(lactide-co-glycolide) for endothelial cell growth. <b>2015</b> , 26, 5386	25
531	In vivo endothelization of tubular vascular grafts through in situ recruitment of endothelial and endothelial progenitor cells by RGD-fused mussel adhesive proteins. <b>2015</b> , 7, 015007	32
530	Capillarity Guided Patterning of Microliquids. <b>2015</b> , 11, 2789-97	28
529	Multi-response analysis in the processing of poly (methyl methacrylate) nano-fibres membrane by electrospinning based on response surface methodology: Fibre diameter and bead formation. <b>2015</b> , 65, 193-206	33
528	Aligning 3D nanofibrous networks from self-assembled phenylalanine nanofibers. <b>2015</b> , 5, 8022-8027	10
527	Antifungal nanofibers made by controlled release of sea animal derived peptide. 2015, 7, 6238-46	19
526	Pcl/Chitosan Blended Nanofibrous Tubes Made by Dual Syringe Electrospinning. <b>2015</b> , 15, 54-59	6
525	Circumferentially aligned fibers guided functional neoartery regeneration in vivo. 2015, 61, 85-94	79
524	An in vivo study of a gold nanocomposite biomaterial for vascular repair. <b>2015</b> , 65, 175-83	16
523	Imparting electroactivity to polycaprolactone fibers with heparin-doped polypyrrole: Modulation of hemocompatibility and inflammatory responses. <i>Acta Biomaterialia</i> , <b>2015</b> , 23, 240-249	22
522	Vascularization of engineered musculoskeletal tissues. <b>2015</b> , 269-291	
521	Mechanical biocompatibility of highly deformable biomedical materials. <b>2015</b> , 48, 100-124	64
520	PLGA/SF blend scaffolds modified with plasmid complexes for enhancing proliferation of endothelial cells. <b>2015</b> , 91-92, 19-27	29
519	Nanoscale strategies: treatment for peripheral vascular disease and critical limb ischemia. <b>2015</b> , 9, 3436-52	36
518	Stimulated myoblast differentiation on graphene oxide-impregnated PLGA-collagen hybrid fibre matrices. <i>Journal of Nanobiotechnology</i> , <b>2015</b> , 13, 21	111
517	Handbook of Vascular Biology Techniques. 2015,	
516	Enhancing Endothelialisation of Artificial/Engineered Blood Vessels Using Structural Cues. <b>2015</b> , 309-324	

# (2016-2015)

515	PCL microspheres tailored with carboxylated poly(glycidyl methacrylate)-REDV conjugates as conducive microcarriers for endothelial cell expansion. <b>2015</b> , 3, 8670-8683		11
514	A multilayered microfluidic blood vessel-like structure. <b>2015</b> , 17, 88		82
513	Fluorescent composite scaffolds made of nanodiamonds/polycaprolactone. 2015, 641, 123-128		12
512	Fabrication of triple-layered vascular scaffolds by combining electrospinning, braiding, and thermally induced phase separation. <b>2015</b> , 161, 305-308		31
511	Anisotropic poly (glycerol sebacate)-poly (?-caprolactone) electrospun fibers promote endothelial cell guidance. <b>2014</b> , 7, 015001		77
510	A review of: application of synthetic scaffold in tissue engineering heart valves. <i>Materials Science and Engineering C</i> , <b>2015</b> , 48, 556-65	8.3	56
509	Plasma-Etching for Controlled Modification of Structural and Mechanical Properties of Electrospun PET Scaffolds. <b>2015</b> , 12, 314-327		19
508	Biodegradable, thermoplastic polyurethane grafts for small diameter vascular replacements. <i>Acta Biomaterialia</i> , <b>2015</b> , 11, 104-13	10.8	84
507	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> , <b>2015</b> , 11, 114-25	10.8	41
506	Electrospun scaffolds for cartilage regeneration. <b>2016</b> , 213-240		3
506 505	Electrospun scaffolds for cartilage regeneration. <b>2016</b> , 213-240  Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. <b>2016</b> , 241-256		2
505	Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. <b>2016</b> , 241-256  Biosensors in Health Care: The Milestones Achieved in Their Development towards	4.5	2
505	Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. 2016, 241-256  Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. 2016, 2016, 3130469  Evaluation of Electrospun PCL-PIBMD Meshes Modified with Plasmid Complexes and. <i>Polymers</i> ,	4.5	2
505 504 503	Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. 2016, 241-256  Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. 2016, 2016, 3130469  Evaluation of Electrospun PCL-PIBMD Meshes Modified with Plasmid Complexes and. <i>Polymers</i> , 2016, 8,  In situ precise electrospinning of medical glue fibers as nonsuture dural repair with high sealing	4.5	2 90 13
505 504 503 502	Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. 2016, 241-256  Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. 2016, 2016, 3130469  Evaluation of Electrospun PCL-PIBMD Meshes Modified with Plasmid Complexes and. <i>Polymers</i> , 2016, 8,  In situ precise electrospinning of medical glue fibers as nonsuture dural repair with high sealing capability and flexibility. 2016, 11, 4213-20	4.5	2 90 13
505 504 503 502 501	Fiber-based hybrid structures as scaffolds and implants for regenerative medicine. 2016, 241-256  Biosensors in Health Care: The Milestones Achieved in Their Development towards Lab-on-Chip-Analysis. 2016, 2016, 3130469  Evaluation of Electrospun PCL-PIBMD Meshes Modified with Plasmid Complexes and. <i>Polymers</i> , 2016, 8,  In situ precise electrospinning of medical glue fibers as nonsuture dural repair with high sealing capability and flexibility. 2016, 11, 4213-20  Tissue Engineering of Cardiovascular System. 2016, 323-339  Engineered Biomaterials to Enhance Stem Cell-Based Cardiac Tissue Engineering and Therapy. 2016	4.5	2 90 13

497	Micro and nanotechnologies in heart valve tissue engineering. <b>2016</b> , 103, 278-292		31
496	Biomaterials in Vascular Graft Surgery. <b>2016</b> ,		3
495	Sustained delivery of recombinant human bone morphogenetic protein-2 from perlecan domain I functionalized electrospun poly (Ecaprolactone) scaffolds for bone regeneration. <b>2016</b> , 3, 25		10
494	A bird's eye view on the use of electrospun nanofibrous scaffolds for bone tissue engineering: Current state-of-the-art, emerging directions and future trends. <b>2016</b> , 12, 2181-2200		84
493	Nanomedicine. 2016,		5
492	Development of UV cross-linked gelatin coated electrospun poly(caprolactone) fibrous scaffolds for tissue engineering. <b>2016</b> , 93, 1539-1548		31
491	Biocompatibility and mechanical behaviour of three-dimensional scaffolds for biomedical devices: processEtructureproperty paradigm. <b>2016</b> , 61, 20-45		67
490	Biocompatibility Assessment of a New Biodegradable Vascular Graft via In Vitro Co-culture Approaches and In Vivo Model. <b>2016</b> , 44, 3319-3334		16
489	Appropriate density of PCL nano-fiber sheath promoted muscular remodeling of PGS/PCL grafts in arterial circulation. <b>2016</b> , 88, 34-47		44
488	Carbon Nanotubes in Biomedical Applications: Factors, Mechanisms, and Remedies of Toxicity. <b>2016</b> , 59, 8149-67		222
487	Poly(lactic acid) nanofibrous scaffolds for tissue engineering. <b>2016</b> , 107, 206-212		238
486	Photocontrol of fluid slugs in liquid crystal polymer microactuators. <b>2016</b> , 537, 179-84		603
485	A new design for electrospinner collecting device facilitates the removal of small diameter tubular scaffolds and paves the way for tissue engineering of capillaries. <b>2016</b> , 347, 60-64		7
484	Polymeric Biomaterials for Tissue Regeneration. <b>2016</b> ,		1
483	Regeneration of Blood Vessels. <b>2016</b> , 315-351		3
482	Materials and surface modification for tissue engineered vascular scaffolds. <b>2016</b> , 27, 1534-52		8
481	Nanofiber-mediated microRNA-126 delivery to vascular endothelial cells for blood vessel regeneration. <i>Acta Biomaterialia</i> , <b>2016</b> , 43, 303-313	10.8	73
480	Smooth muscle tissue engineering in crosslinked electrospun gelatin scaffolds. <b>2016</b> , 104, 313-21		19

# (2016-2016)

479	Peptide-modified PELCL electrospun membranes for regulation of vascular endothelial cells. <i>Materials Science and Engineering C</i> , <b>2016</b> , 68, 623-631	8.3	22
478	Fabrication and Characterization of Electrospun Thermoplastic Polyurethane/Fibroin Small-Diameter Vascular Grafts for Vascular Tissue Engineering. <b>2016</b> , 31, 638-646		20
477	Experimental investigation on process parameters of near-field deposition of electrospinning-based rapid prototyping. <b>2016</b> , 11, 193-207		8
476	Pericyte Seeded Dual Peptide Scaffold with Improved Endothelialization for Vascular Graft Tissue Engineering. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 3046-3055	10.1	27
475	Low-Voltage Continuous Electrospinning Patterning. <b>2016</b> , 8, 32120-32131		60
474	Fabrication of Small Caliber Stent-grafts Using Electrospinning and Balloon Expandable Bare Metal Stents. <b>2016</b> ,		2
473	Three-dimensional Biomimetic Technology: Novel Biorubber Creates Defined Micro- and Macro-scale Architectures in Collagen Hydrogels. <b>2016</b> , 53578		3
472	Three-Layered PCL Grafts Promoted Vascular Regeneration in a Rabbit Carotid Artery Model. <b>2016</b> , 16, 608-18		33
471	Mimicking Form and Function of Native Small Diameter Vascular Conduits Using Mulberry and Non-mulberry Patterned Silk Films. <b>2016</b> , 8, 15874-88		57
470	Characterization of maghemite (Fe2O3)-loaded poly-l-lactic acid/thermoplastic polyurethane electrospun mats for soft tissue engineering. <b>2016</b> , 51, 8361-8381		5
469	Orthogonally Functionalizable Polyurethane with Subsequent Modification with Heparin and Endothelium-Inducing Peptide Aiming for Vascular Reconstruction. <b>2016</b> , 8, 14442-52		32
468	Tubular inverse opal scaffolds for biomimetic vessels. <b>2016</b> , 8, 13574-80		22
467	Fabrication of Aligned Nanofiber Polymer Yarn Networks for Anisotropic Soft Tissue Scaffolds. <b>2016</b> , 8, 16950-60		76
466	Polymeric nanostructured materials for biomedical applications. <b>2016</b> , 60, 86-128		209
465	The Application of Nanotechnology for Implant Drug Release. <b>2016</b> , 311-342		
464	Approaches to Fabricating Multiple-Layered Vascular Scaffolds Using Hybrid Electrospinning and Thermally Induced Phase Separation Methods. <b>2016</b> , 55, 882-892		39
463	Nano-biomaterials for cardiovascular applications: Clinical perspective. <b>2016</b> , 229, 23-36		23
462	Utilizing stem cells for three-dimensional neural tissue engineering. <b>2016</b> , 4, 768-84		34

461	Mechanical behavior of bilayered small-diameter nanofibrous structures as biomimetic vascular grafts. <b>2016</b> , 60, 220-233		51
460	Methods of Monitoring Cell Fate and Tissue Growth in Three-Dimensional Scaffold-Based Strategies for In Vitro Tissue Engineering. <b>2016</b> , 22, 265-83		14
459	Development of an in-process UV-crosslinked, electrospun PCL/aPLA-co-TMC composite polymer for tubular tissue engineering applications. <i>Acta Biomaterialia</i> , <b>2016</b> , 36, 231-40	10.8	30
458	Fabrication and characterisation of biomimetic, electrospun gelatin fibre scaffolds for tunica media-equivalent, tissue engineered vascular grafts. <i>Materials Science and Engineering C</i> , <b>2016</b> , 61, 473-8	3 <sup>8</sup> 3.3	51
457	Fabrication of functional PLGA-based electrospun scaffolds and their applications in biomedical engineering. <i>Materials Science and Engineering C</i> , <b>2016</b> , 59, 1181-1194	8.3	127
456	A portable electrospinning apparatus based on a small solar cell and a hand generator: design, performance and application. <b>2016</b> , 8, 209-13		39
455	Hybrid small-diameter vascular grafts: Anti-expansion effect of electrospun poly Haprolactone on heparin-coated decellularized matrices. <b>2016</b> , 76, 359-70		113
454	Biocorrosion behavior of biodegradable nanocomposite fibers coated layer-by-layer on AM50 magnesium implant. <i>Materials Science and Engineering C</i> , <b>2016</b> , 58, 1232-41	8.3	31
453	Stem cells for tissue engineered vascular bypass grafts. <b>2017</b> , 45, 999-1010		7
452	3D Bioprinting for Vascularized Tissue Fabrication. <b>2017</b> , 45, 132-147		130
45 <sup>2</sup>	3D Bioprinting for Vascularized Tissue Fabrication. <b>2017</b> , 45, 132-147  Silk fibroin for vascular regeneration. <b>2017</b> , 80, 280-290		130
451	Silk fibroin for vascular regeneration. <b>2017</b> , 80, 280-290  Poly(L-lactide-co-caprolactone)/collagen electrospun mat: Potential for wound dressing and	10.8	31
45 <sup>1</sup> 45 <sup>0</sup>	Silk fibroin for vascular regeneration. <b>2017</b> , 80, 280-290  Poly(L-lactide-co-caprolactone)/collagen electrospun mat: Potential for wound dressing and controlled drug delivery. <b>2017</b> , 66, 645-657	10.8	31
451 450 449	Silk fibroin for vascular regeneration. 2017, 80, 280-290  Poly(L-lactide-co-caprolactone)/collagen electrospun mat: Potential for wound dressing and controlled drug delivery. 2017, 66, 645-657  Bioprinting for vascular and vascularized tissue biofabrication. <i>Acta Biomaterialia</i> , 2017, 51, 1-20	10.8	31 14 240
451 450 449 448	Silk fibroin for vascular regeneration. 2017, 80, 280-290  Poly(L-lactide-co-caprolactone)/collagen electrospun mat: Potential for wound dressing and controlled drug delivery. 2017, 66, 645-657  Bioprinting for vascular and vascularized tissue biofabrication. <i>Acta Biomaterialia</i> , 2017, 51, 1-20  Decellularized Tissue Engineering. 2017, 185-226		31 14 240 7
451 450 449 448 447	Silk fibroin for vascular regeneration. 2017, 80, 280-290  Poly(L-lactide-co-caprolactone)/collagen electrospun mat: Potential for wound dressing and controlled drug delivery. 2017, 66, 645-657  Bioprinting for vascular and vascularized tissue biofabrication. <i>Acta Biomaterialia</i> , 2017, 51, 1-20  Decellularized Tissue Engineering. 2017, 185-226  Development of hydrogels for regenerative engineering. 2017, 12, 1600394		31 14 240 7

443	In vitro study of proliferation and cellularisation on electrospun membranes for vascular prosthesis. <b>2017</b> , 589-592		1
442	Preparation and characterization of flexible and elastic porous tubular PTMC scaffolds for vascular tissue engineering. <b>2017</b> , 28, 1239-1244		16
441	Application of a bilayer tubular scaffold based on electrospun poly(l-lactide-co-caprolactone)/collagen fibers and yarns for tracheal tissue engineering. <b>2017</b> , 5, 139-15	0	31
440	Electrospun vascular scaffold for cellularized small diameter blood vessels: A preclinical large animal study. <i>Acta Biomaterialia</i> , <b>2017</b> , 59, 58-67	10.8	67
439	Small-diameter hybrid vascular grafts composed of polycaprolactone and polydioxanone fibers. <i>Scientific Reports</i> , <b>2017</b> , 7, 3615	1.9	56
438	Engineering the vasculature with additive manufacturing. <b>2017</b> , 2, 1-13		36
437	Mechanically strong interpenetrating network hydrogels for differential cellular adhesion. <b>2017</b> , 7, 1804	6-180	)53
436	A compliant and biomimetic three-layered vascular graft for small blood vessels. <b>2017</b> , 9, 025010		28
435	Introduction to Tissue Engineering. <b>2017</b> , 1-34		12
434	Development of Tissue-Engineered Blood Vessels. <b>2017</b> , 325-361		
434	Development of Tissue-Engineered Blood Vessels. <b>2017</b> , 325-361  Biomaterials in Tissue Engineering. <b>2017</b> , 35-83		4
	Biomaterials in Tissue Engineering. <b>2017</b> , 35-83  Compositions Including Synthetic and Natural Blends for Integration and Structural Integrity:	10.1	4 20
433	Biomaterials in Tissue Engineering. <b>2017</b> , 35-83  Compositions Including Synthetic and Natural Blends for Integration and Structural Integrity:	(0.1	
433	Biomaterials in Tissue Engineering. 2017, 35-83  Compositions Including Synthetic and Natural Blends for Integration and Structural Integrity: Engineered for Different Vascular Graft Applications. Advanced Healthcare Materials, 2017, 6, 1700001  Functional Modification of Electrospun Poly(Exaprolactone) Vascular Grafts with the Fusion	10.1	20
433 432 431	Biomaterials in Tissue Engineering. 2017, 35-83  Compositions Including Synthetic and Natural Blends for Integration and Structural Integrity: Engineered for Different Vascular Graft Applications. <i>Advanced Healthcare Materials</i> , 2017, 6, 1700001  Functional Modification of Electrospun Poly(Etaprolactone) Vascular Grafts with the Fusion Protein VEGF-HGFI Enhanced Vascular Regeneration. 2017, 9, 11415-11427  Diverse Applications of Nanomedicine. 2017, 11, 2313-2381	10.1	20 52
433 432 431 430	Biomaterials in Tissue Engineering. 2017, 35-83  Compositions Including Synthetic and Natural Blends for Integration and Structural Integrity: Engineered for Different Vascular Graft Applications. Advanced Healthcare Materials, 2017, 6, 1700001  Functional Modification of Electrospun Poly(Etaprolactone) Vascular Grafts with the Fusion Protein VEGF-HGFI Enhanced Vascular Regeneration. 2017, 9, 11415-11427  Diverse Applications of Nanomedicine. 2017, 11, 2313-2381  Cell-matrix mechanical interaction in electrospun polymeric scaffolds for tissue engineering:		20 52 714
433 432 431 430 429	Biomaterials in Tissue Engineering. 2017, 35-83  Compositions Including Synthetic and Natural Blends for Integration and Structural Integrity: Engineered for Different Vascular Graft Applications. Advanced Healthcare Materials, 2017, 6, 1700001  Functional Modification of Electrospun Poly(Etaprolactone) Vascular Grafts with the Fusion Protein VEGF-HGFI Enhanced Vascular Regeneration. 2017, 9, 11415-11427  Diverse Applications of Nanomedicine. 2017, 11, 2313-2381  Cell-matrix mechanical interaction in electrospun polymeric scaffolds for tissue engineering: Implications for scaffold design and performance. Acta Biomaterialia, 2017, 50, 41-55  Improving endothelialization by the combined application of polyethylene glycol coated cerium		20 52 714 104

425	Fabrication of electrospun HPGL scaffolds via glycidyl methacrylate cross-linker: Morphology, mechanical and biological properties. <i>Materials Science and Engineering C</i> , <b>2017</b> , 73, 72-79	5
424	The effects of different amounts of drug microspheres on the vivo and vitro performance of the PLGA/ETCP scaffold. <b>2017</b> , 20, 351-362	5
423	Chitosan based nanofibers in bone tissue engineering. <b>2017</b> , 104, 1372-1382	153
422	Layer-by-layer approach for a uniformed fabrication of a cell patterned vessel-like construct. <b>2016</b> , 9, 015001	24
421	Preparation and characterization of polycaprolactone-polyethylene glycol methyl ether and polycaprolactone-chitosan electrospun mats potential for vascular tissue engineering. <b>2017</b> , 32, 648-662	24
420	Engineering the mechanical and biological properties of nanofibrous vascular grafts for in situ vascular tissue engineering. <b>2017</b> , 9, 035007	41
419	Biocompatibility and anti-calcification of a biological artery immobilized with naturally-occurring phytic acid as the crosslinking agent. <b>2017</b> , 5, 8115-8124	14
418	A review of electrospinning manipulation techniques to direct fiber deposition and maximize pore size. <b>2017</b> , 2, 46-61	37
417	Electrospun PCL-PIBMD/SF blend scaffolds with plasmid complexes for endothelial cell proliferation. <b>2017</b> , 7, 39452-39464	20
416	Rapid fabrication of highly porous and biocompatible composite textile tubular scaffold for vascular tissue engineering. <b>2017</b> , 96, 27-43	18
415	Biomimetic microenvironment complexity to redress the balance between biodegradation and de novo matrix synthesis during early phase of vascular tissue engineering. <i>Materials Science and Engineering C</i> , <b>2017</b> , 81, 39-47	2
414	Facile Fabrication of Composite Electrospun Nanofibrous Matrices of Poly(Eaprolactone)-Silica Based Pickering Emulsion. <b>2017</b> , 33, 8062-8069	14
413	Electrospinning Complexly-shaped, Resorbable, Bifurcated Vascular Grafts. <b>2017</b> , 65, 207-212	9
412	50th Anniversary Perspective: Advanced Polymer Fibers: High Performance and Ultrafine. <b>2017</b> , 50, 5627-564	<b>2</b> <sub>7</sub> 6
411	Elasticity response of electrospun bioresorbable small-diameter vascular grafts: Towards a biomimetic mechanical response. <b>2017</b> , 209, 175-177	3
410	Superhydrophobic, Reversibly Elastic, Moldable, and Electrospun (SupREME) Fibers with Multimodal Functions: From Oil Absorbents to Local Drug Delivery Adjuvants. <b>2017</b> , 27, 1702310	42
409	Progress and perspectives in bioactive agent delivery via electrospun vascular grafts. <b>2017</b> , 7, 32164-32184	20
408	RGD peptide and graphene oxide co-functionalized PLGA nanofiber scaffolds for vascular tissue engineering. <b>2017</b> , 4, 159-166	50

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l low air resistance. <b>2017</b> ,	
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389	A novel polyurethane modified with biomacromolecules for small-diameter vascular graft applications. <b>2018</b> , 53, 9913-9927	24
388	Rheological Properties of Biological Structures, Scaffolds and Their Biomedical Applications. <b>2018</b> , 119-140	
387	Electrospun Polythiophene Phenylenes for Tissue Engineering. <b>2018</b> , 19, 1456-1468	31
386	The deposition of thin titanium-nitrogen coatings on the surface of PCL-based scaffolds for vascular tissue engineering. <b>2018</b> , 112, 153705	11
385	An Investigation into Scalability Production of Ultra-Fine Nanofiber Using Electrospinning Systems. <b>2018</b> , 19, 105-115	6
384	Tissue-engineered Vascular Grafts: Balance of the Four Major Requirements. <b>2018</b> , 23, 34-44	36
383	Design of copolymer PLA-PCL electrospun matrix for biomedical applications. <b>2018</b> , 124, 77-89	44
382	Design of functional electrospun nanofibers for cancer cell capture applications. <b>2018</b> , 6, 1420-1432	31
381	Two-photon lithography and microscopy of 3D hydrogel scaffolds for neuronal cell growth. <b>2018</b> , 4, 027009	51
380	Carbon Nanomaterial-Based Conducting Polymer Composites for Biosensing Applications. <b>2018</b> , 69-91	1
379	Electrospun membranes of PELCL/PCL-REDV loading with miRNA-126 for enhancement of vascular endothelial cell adhesion and proliferation. <i>Materials Science and Engineering C</i> , <b>2018</b> , 85, 37-46	31
378	Cilostazol-Loaded Poly(ECaprolactone) Electrospun Drug Delivery System for Cardiovascular Applications. <b>2018</b> , 35, 32	42
377	Fabrication of triple-layered bifurcated vascular scaffold with a certain degree of three-dimensional structure. <b>2018</b> , 8, 015006	
376	Smart and Biostable Polyurethanes for Long-Term Implants. <b>2018</b> , 4, 1479-1490	23
375	Design parameters for electrospun biodegradable vascular grafts. <b>2018</b> , 47, 2205-2227	20
374	Evaluation of the effects of multiwalled carbon nanotubes on electrospun poly(3-hydroxybutirate) scaffold for tissue engineering applications. <b>2018</b> , 25, 259-272	36
373	Determining the optimal protocol for preparing an acellular scaffold of tissue engineered small-diameter blood vessels. <b>2018</b> , 106, 619-631	7
372	Simulation of the morphological structures of electrospun membranes. <b>2018</b> , 135, 45653	4

371	Advances in the generation of bioengineered bile ducts. <b>2018</b> , 1864, 1532-1538	12
370	Development of biomimetic thermoplastic polyurethane/fibroin small-diameter vascular grafts via a novel electrospinning approach. <b>2018</b> , 106, 985-996	31
369	Engineered tubular structures based on chitosan for tissue engineering applications. 2018, 32, 841-852	6
368	Fabrication and Characterization of Electrospun Bi-Hybrid PU/PET Scaffolds for Small-Diameter Vascular Grafts Applications. <b>2018</b> , 9, 73-83	16
367	Conjugate electrospinning-fabricated nanofiber yarns simultaneously endowed with bifunctionality of magnetism and enhanced fluorescence. <b>2018</b> , 53, 2290-2302	20
366	A comparative computational study of blood flow pattern in exemplary textile vascular grafts. <b>2018</b> , 109, 858-870	3
365	Coating of Polyurethane Scaffold With Arabinogalactan Leads to Increase of Adhesion to Fibroblast Cells by Integrin Molecules Pathway. <b>2018</b> , 22, 1-4	7
364	Surface modification of electrospun poly-(l-lactic) acid scaffolds by reactive magnetron sputtering. <b>2018</b> , 162, 43-51	23
363	Electrospun biphasic tubular scaffold with enhanced mechanical properties for vascular tissue engineering. <i>Materials Science and Engineering C</i> , <b>2018</b> , 82, 10-18	40
362	Fabrication and preliminary study of a biomimetic tri-layer tubular graft based on fibers and fiber yarns for vascular tissue engineering. <i>Materials Science and Engineering C</i> , <b>2018</b> , 82, 121-129	61
361	The physico-chemical properties of electrospun vascular PLLA scaffolds modified by the DC magnetron sputtering of a titanium target. <b>2018</b> , 1115, 032076	1
360	. 2018,	7
359	Eumelanin Nanoparticle-Incorporated Polyvinyl Alcohol Nanofibrous Composite as an Electroconductive Scaffold for Skeletal Muscle Tissue Engineering <i>ACS Applied Bio Materials</i> , <b>2018</b> , 4.1 1, 1893-1905	7
358	Recent Progress in Vascular Tissue-Engineered Blood Vessels. <b>2018</b> , 1064, 123-144	4
357	Generating vascular conduits: from tissue engineering to three-dimensional bioprinting. 2018, 3, 203-213	15
356	Controlling the surface structure of electrospun fibers: Effect on endothelial cells and blood coagulation. <b>2018</b> , 13, 051001	2
355	Smart Drug Delivery from Electrospun Fibers through Electroresponsive Polymeric Nanoparticles <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 1594-1605	29
354	Nanoparticles in tissue engineering: applications, challenges and prospects. <b>2018</b> , 13, 5637-5655	188

353	A Review of Bio-Processing of Blood Vessels Using Natural and Synthetic Materials. 2018,	1
352	Preparation and Characterization of Biocompatible Electrospun Nanofiber Scaffolds. 2018, 62,	6
351	A nanofibrous bilayered scaffold for tissue engineering of small-diameter blood vessels. <b>2018</b> , 29, 3151-3158	18
350	Design and Fabrication of a Biomimetic Vascular Scaffold Promoting in Situ Endothelialization and Tunica Media Regeneration <i>ACS Applied Bio Materials</i> , <b>2018</b> , 1, 833-844	13
349	Combining Catalyst-Free Click Chemistry with Coaxial Electrospinning to Obtain Long-Term, Water-Stable, Bioactive Elastin-Like Fibers for Tissue Engineering Applications. <b>2018</b> , 18, e1800147	4
348	Fabrication of a bilayer scaffold for small diameter vascular applications. <b>2018</b> , 106, 2850-2862	17
347	A structural reconsideration: Linear aliphatic or alicyclic hard segments for biodegradable thermoplastic polyurethanes?. <b>2018</b> , 56, 2214-2224	10
346	Small diameter helical vascular scaffolds support endothelial cell survival. <b>2018</b> , 14, 2598-2608	8
345	Programmed Shape-Morphing Scaffolds Enabling Facile 3D Endothelialization. <b>2018</b> , 28, 1801027	85
344	Transforming Nanofibers into Woven Nanotextiles for Vascular Application. <b>2018</b> , 10, 19449-19458	18
343	Fabrication and In Vitro Characterization of a Tissue Engineered PCL-PLLA Heart Valve. <i>Scientific Reports</i> , <b>2018</b> , 8, 8187	35
342	Regulation Effects of Biomimetic Hybrid Scaffolds on Vascular Endothelium Remodeling. 2018, 10, 23583-235	19 <del>15</del>
341	Fabrication of spaced monolayers of electrospun nanofibers for three-dimensional cell infiltration and proliferation. <b>2018</b> , 198, 73-77	4
340	Hybrid electrospun fibers based on TPU-PDMS and spherical nanohydroxyapatite for bone tissue engineering. <b>2018</b> , 16, 264-273	10
339	The Effect of Poly (Glycerol Sebacate) Incorporation within Hybrid Chitin-Lignin Sol-Gel Nanofibrous Scaffolds. <i>Materials</i> , <b>2018</b> , 11,	17
338	Electrospun Fibrous Scaffolds for Small-Diameter Blood Vessels: A Review. <b>2018</b> , 8,	64
337	Nanostructure-Enabled and Macromolecule-Grafted Surfaces for Biomedical Applications. 2018, 9,	9
336	Promotion of Vascular Morphogenesis of Endothelial Cells Co-Cultured with Human Adipose-Derived Mesenchymal Stem Cells Using Polycaprolactone/Gelatin Nanofibrous Scaffolds. <b>2018</b> , 8,	29

335	Implantation of Electrospun Vascular Grafts with Optimized Structure in a Rat Model. 2018,		1
334	Small-diameter vascular graft using co-electrospun composite PCL/PU nanofibers. <b>2018</b> , 13, 055014		22
333	Textile-based biomaterials for surgical applications. <b>2018</b> , 179-215		3
332	Fabrication of heterogeneous porous bilayered nanofibrous vascular grafts by two-step phase separation technique. <i>Acta Biomaterialia</i> , <b>2018</b> , 79, 168-181	10.8	34
331	Novel electrospun chitosan/polyvinyl alcohol/zinc oxide nanofibrous mats with antibacterial and antioxidant properties for diabetic wound healing. <b>2018</b> , 120, 385-393		200
330	A plasma-assisted bioextrusion system for tissue engineering. <b>2018</b> , 67, 229-232		16
329	Humidity sensing properties of the composite of electrospun crosslinked polyelectrolyte nanofibers decorated with Ag nanoparticles. <b>2018</b> , 273, 133-142		26
328	Fabrication and biocompatibility of agarose acetate nanofibrous membrane by electrospinning. <b>2018</b> , 197, 237-245		18
327	Inorganic Nanofibers by Electrospinning Techniques and Their Application in Energy Conversion and Storage Systems. <b>2018</b> , 98, 1-70		11
326	Current Challenges of Bioprinted Tissues Toward Clinical Translation. <b>2019</b> , 25, 1-13		18
325	Intelligent Surfaces for Cell Sheet Engineering. <b>2019</b> , 469-484		2
324	Tissue Engineering: A Coupled Agent-Based Finite Element Approach. <b>2019</b> , 25, 641-654		4
323	Fabrication Techniques for Vascular and Vascularized Tissue Engineering. <i>Advanced Healthcare Materials</i> , <b>2019</b> , 8, e1900742	10.1	35
322	Heterotypic Scaffold Design Orchestrates Primary Cell Organization and Phenotypes in Cocultured Small Diameter Vascular Grafts. <b>2019</b> , 29, 1905987		47
321	Co-immobilization of ACH antithrombotic peptide and CAG cell-adhesive peptide onto vascular grafts for improved hemocompatibility and endothelialization. <i>Acta Biomaterialia</i> , <b>2019</b> , 97, 344-359	10.8	25
320	Electrospun polyurethane patch in combination with cedarwood and cobalt nitrate for cardiac applications. <b>2019</b> , 136, 48226		6
319	Enzyme biotechnology for medical textiles. <b>2019</b> , 133-158		
318	Fabrications of small diameter compliance bypass conduit using electrospinning of clinical grade polyurethane. <b>2019</b> , 27, 636-647		4

317	Interfacing cells with microengineered scaffolds for neural tissue reconstruction. <b>2019</b> , 152, 202-211		15
316	Acellular Small-Diameter Tissue-Engineered Vascular Grafts. <b>2019</b> , 9, 2864		10
315	Cardiac tissue engineering: state-of-the-art methods and outlook. <i>Journal of Biological Engineering</i> , <b>2019</b> , 13, 57	6.3	51
314	Effects of Encapsulated Cells on the Physical-Mechanical Properties and Microstructure of Gelatin Methacrylate Hydrogels. <b>2019</b> , 20,		19
313	The influence of elastomeric polyurethane type and ratio on the physicochemical properties of electrospun polyurethane/silk fibroin hybrid nanofibers as potential scaffolds for soft and hard tissue engineering. <b>2019</b> , 121, 109294		7
312	Tissue-engineering of vascular grafts containing endothelium and smooth-muscle using triple-coaxial cell printing. <b>2019</b> , 6, 041402		52
311	In vitro and preclinical characterisation of compressed, macro-porous and collagen coated poly-Ecaprolactone electro-spun scaffolds. <b>2019</b> , 14, 055007		2
310	Fabrication and Characterization of Pectin Hydrogel Nanofiber Scaffolds for Differentiation of Mesenchymal Stem Cells into Vascular Cells. <b>2019</b> , 5, 6511-6519		27
309	Biodegradable polymer nanocomposites for tissue engineering: synthetic strategies and related applications. <b>2019</b> , 157-198		1
308	Electrospun nanofibers for the fabrication of engineered vascular grafts. <i>Journal of Biological Engineering</i> , <b>2019</b> , 13, 83	6.3	23
307	The Influence of Pre-Electrospinning Plasma Treatment on Physicochemical Characteristics of PLA Nanofibers. <i>Macromolecular Materials and Engineering</i> , <b>2019</b> , 304, 1900391	3.9	1
306	Multi-layer approaches to scaffold-based small diameter vessel engineering: A review. <i>Materials Science and Engineering C</i> , <b>2019</b> , 97, 896-912	8.3	40
305	Analysis of the Flexural Rigidity of Vascular Grafts by Numerical Simulation Methods. <b>2019</b> , 64, 485-492		1
304	Mechanical considerations for polymeric heart valve development: Biomechanics, materials, design and manufacturing. <b>2019</b> , 225, 119493		25
303	Hybrid electrospun rapamycin-loaded small-diameter decellularized vascular grafts effectively inhibit intimal hyperplasia. <i>Acta Biomaterialia</i> , <b>2019</b> , 97, 321-332	10.8	37
302	Nanomaterials as potential and versatile platform for next generation tissue engineering applications. <b>2019</b> , 107, 2433-2449		22
301	Electrospun Nanofibers for Tissue Engineering. <b>2019</b> , 719-734		9
300	In Vitro Endothelialization of Surface-Integrated Nanofiber Networks for Stretchable Blood Interfaces. <b>2019</b> , 11, 5740-5751		8

299	Stiffness of Aligned Fibers Regulates the Phenotypic Expression of Vascular Smooth Muscle Cells. <b>2019</b> , 11, 6867-6880		44	
298	Pathology of Bioabsorbable Implants in Preclinical Studies. <b>2019</b> , 47, 358-378		16	
297	Ultraviolet Functionalization of Electrospun Scaffolds to Activate Fibrous Runways for Targeting Cell Adhesion. <b>2019</b> , 7, 159		3	
296	Highly aligned and geometrically structured poly(glycerol sebacate)-polyethylene oxide composite fiber matrices towards bioscaffolding applications. <b>2019</b> , 21, 53		6	
295	From fiber curls to mesh waves: a platform for the fabrication of hierarchically structured nanofibers mimicking natural tissue formation. <b>2019</b> , 11, 14312-14321		5	
294	Scaffolds for blood vessel tissue engineering. <b>2019</b> , 659-684			
293	Different Molecular Interaction between Collagen and <code>\( \extrm{\text{dor EC}}\) hitin in Mechanically Improved Electrospun Composite. <i>Marine Drugs</i>, <b>2019</b>, 17,</code>	6	8	
292	Yttrium oxide nanoparticle loaded scaffolds with enhanced cell adhesion and vascularization for tissue engineering applications. <i>Materials Science and Engineering C</i> , <b>2019</b> , 103, 109801	8.3	43	
291	Titanium Nanorods Loaded PCL Meshes with Enhanced Blood Vessel Formation and Cell Migration for Wound Dressing Applications. <b>2019</b> , 19, e1900058		23	
290	Improving anti thrombogenicity of nanofibrous polycaprolactone through surface modification. <b>2019</b> , 34, 408-418		12	
289	Effect of Electrospun Fiber Mat Thickness and Support Method on Cell Morphology. 2019, 9,		11	
288	Optimization of Electrospun Poly(caprolactone) Fiber Diameter for Vascular Scaffolds to Maximize Smooth Muscle Cell Infiltration and Phenotype Modulation. <i>Polymers</i> , <b>2019</b> , 11,	4.5	24	
287	Engineered Electrospun Polyurethane Composite Patch Combined with Bi-functional Components Rendering High Strength for Cardiac Tissue Engineering. <i>Polymers</i> , <b>2019</b> , 11,	4.5	12	
286	Spatial Patterning of Molecular Cues and Vascular Cells in Fully Integrated Hydrogel Channels via Interfacial Bioorthogonal Cross-Linking. <b>2019</b> , 11, 16402-16411		11	
285	Electrospun cellulose Nano fibril reinforced PLA/PBS composite scaffold for vascular tissue engineering. <b>2019</b> , 26, 1		32	
284	Chitosan-based nanoparticles: promising biomedical applications in specific drug delivery and targeting. <b>2019</b> , 215-257		1	
283	3D bioprinting of vascular conduits for pediatric congenital heart repairs. <b>2019</b> , 211, 35-45		18	
282	Polylactide: the polymer revolutionizing the biomedical field. <b>2019</b> , 381-415		3	

281	Progress in the Advancement of Porous Biopolymer Scaffold: Tissue Engineering Application. <b>2019</b> , 58, 6163-6194		84
280	3D hierarchical scaffolds enabled by a post-patternable, reconfigurable, and biocompatible 2D vitrimer film for tissue engineering applications. <b>2019</b> , 7, 3341-3345		4
279	Towards compliant small-diameter vascular grafts: Predictive analytical model and experiments. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 715-723	8.3	10
278	Clopidogrel eluting electrospun polyurethane/polyethylene glycol thromboresistant, hemocompatible nanofibrous scaffolds. <b>2019</b> , 33, 1327-1347		18
277	3D bioprinting of complex channels within cell-laden hydrogels. <i>Acta Biomaterialia</i> , <b>2019</b> , 95, 214-224	10.8	55
276	Electrospinning and Electrospun Nanofibers: Methods, Materials, and Applications. <b>2019</b> , 119, 5298-541	5	1463
275	Impact of sterilization by electron beam, gamma radiation and X-rays on electrospun poly-(Eaprolactone) fiber mats. <b>2019</b> , 30, 42		15
274	Poly(propylene fumarate)-based materials: Synthesis, functionalization, properties, device fabrication and biomedical applications. <b>2019</b> , 208, 45-71		30
273	Production of a new platform based calixarene nanofiber for controlled release of the drugs. <i>Materials Science and Engineering C</i> , <b>2019</b> , 100, 466-474	8.3	10
272	State of the Art of Small-Diameter Vessel-Polyurethane Substitutes. <b>2019</b> , 19, e1800482		8
271	Controlled NO-Release from 3D-Printed Small-Diameter Vascular Grafts Prevents Platelet Activation and Bacterial Infectivity. <b>2019</b> , 5, 2284-2296		20
270	Electrospun nanofibers for tissue engineering applications. <b>2019</b> , 77-95		4
269	Biodegrading highly porous elastomeric graft regenerates muscular and innervated carotid artery-Comparative study with vein graft. <b>2019</b> , 13, 1095-1108		1
268	Online fabrication of ultralight, three-dimensional, and structurally stable ultrafine fibre assemblies with a double-porous feature. <b>2019</b> , 11, 8185-8195		19
267	Biodegradable core-shell electrospun nanofibers based on PLA and EPGA for wound healing. <b>2019</b> , 116, 30-37		59
266	Engineering small-caliber vascular grafts from collagen filaments and nanofibers with comparable mechanical properties to native vessels. <b>2019</b> , 11, 035020		21
265	Modulating smooth muscle cell response by the release of TGFI from tubular scaffolds for vascular tissue engineering. <b>2019</b> , 299, 44-52		19
264	Electrospun cellulose acetate and poly(vinyl chloride) nanofiber mats containing silver nanoparticles for antifungi packaging. <b>2019</b> , 1, 1		16

263	Nanofibers for Biomedical and Healthcare Applications. <b>2019</b> , 19, e1800256	115
262	Enriched mechanical, thermal, and blood compatibility of single stage electrospun polyurethane nickel oxide nanocomposite for cardiac tissue engineering. <b>2019</b> , 40, 2381-2390	17
261	Surface Modification of Electrospun Scaffolds for Endothelialization of Tissue-Engineered Vascular Grafts Using Human Cord Blood-Derived Endothelial Cells. <b>2019</b> , 8,	18
260	Synthesis, characterization, and bioactivity investigation of biomimetic biodegradable PLA scaffold fabricated by fused filament fabrication process. <b>2019</b> , 41, 1	41
259	Computationally optimizing the compliance of multilayered biomimetic tissue engineered vascular grafts. <b>2019</b> ,	6
258	Characterization and in vitro evaluation of electrospun aligned-fiber membranes of poly(L-co-D,L-lactic acid). <b>2019</b> , 136, 47657	4
257	Cytotoxicity Evaluation of Carbon Nanotubes for Biomedical and Tissue Engineering Applications. <b>2019</b> ,	5
256	Synthesis of nano zirconium oxide and its application in dentistry. <b>2019</b> , 8, 396-404	22
255	Dually optimized polycaprolactone/collagen I microfiber scaffolds with stem cell capture and differentiation-inducing abilities promote bone regeneration. <b>2019</b> , 7, 7052-7064	7
254	Electrospinning: An Efficient Biopolymer-Based Micro- and Nanofibers Fabrication Technique. <b>2019</b> , 209-241	10
253	Current progress in application of polymeric nanofibers to tissue engineering. 2019, 6, 36	108
252	CTGF Loaded Electrospun Dual Porous Core-Shell Membrane For Diabetic Wound Healing. <b>2019</b> , 14, 8573-858	<b>38</b> 46
251	Fabrication of triple-layered vascular grafts composed of silk fibers, polyacrylamide hydrogel, and polyurethane nanofibers with biomimetic mechanical properties. <i>Materials Science and Engineering C</i> , <b>2019</b> , 98, 241-249	39
250	Fabrication of Nanofibrous PVA/Alginate-Sulfate Substrates for Growth Factor Delivery. <b>2019</b> , 107, 403-413	36
249	Vascular endothelial growth factor immobilized on mussel-inspired three-dimensional bilayered scaffold for artificial vascular graft application: In vitro and in vivo evaluations. <b>2019</b> , 537, 333-344	29
248	Successful Biomaterial-Based Artificial Organ Dpdates on Artificial Blood Vessels. <b>2019</b> , 203-222	3
247	In vitro assessment of dual-network electrospun tubes from poly(1,4 cyclohexane dimethylene isosorbide terephthalate)/PVA hydrogel for blood vessel application. <b>2019</b> , 136, 47222	12
246	The multiscale stiffness of electrospun substrates and aspects of their mechanical biocompatibility.  Acta Biomaterialia, <b>2019</b> , 84, 146-158	9

245	Polyhydroxyalkanoates as biomaterial for electrospun scaffolds. <b>2019</b> , 124, 102-110		50
244	Target regulation of both VECs and VSMCs by dual-loading miRNA-126 and miRNA-145 in the bilayered electrospun membrane for small-diameter vascular regeneration. <b>2019</b> , 107, 371-382		15
243	Thermally-triggered fabrication of cell sheets for tissue engineering and regenerative medicine. <b>2019</b> , 138, 276-292		45
242	Mechanical and degradation properties of small-diameter vascular grafts in an in vitro biomimetic environment. <b>2019</b> , 33, 1017-1034		6
241	Biofabrication of three-dimensional cellular structures based on gelatin methacrylate-alginate interpenetrating network hydrogel. <b>2019</b> , 33, 1105-1117		29
240	Electrospinning tissue engineering and wound dressing scaffolds from polymer-titanium dioxide nanocomposites. <b>2019</b> , 358, 1262-1278		121
239	Morphology-induced physico-mechanical and biological characteristics of TPU-PDMS blend scaffolds for skin tissue engineering applications. <b>2019</b> , 107, 1634-1644		7
238	Cilostazol-loaded electrospun three-dimensional systems for potential cardiovascular application: Effect of fibers hydrophilization on drug release, and cytocompatibility. <b>2019</b> , 536, 310-327		13
237	Endothelial Cell Mechanotransduction in the Dynamic Vascular Environment. <b>2019</b> , 3, e1800252		28
236	Coaxially-structured fibres with tailored material properties for vascular graft implant. <i>Materials Science and Engineering C</i> , <b>2019</b> , 97, 1-11	8.3	29
235	Bilayered heparinized vascular graft fabricated by combining electrospinning and freeze drying methods. <i>Materials Science and Engineering C</i> , <b>2019</b> , 94, 1067-1076	8.3	57
234	Nanoengineered biomaterials for vascular tissue engineering. <b>2019</b> , 125-144		
233	Investigating the effect of chitosan on hydrophilicity and bioactivity of conductive electrospun composite scaffold for neural tissue engineering. <b>2019</b> , 121, 625-632		80
232	High flux nanofibrous membranes for colored effluent treatment. <b>2020</b> , 34, 274-283		1
231	Plasma treatment and chitosan coating: a combination for improving PET surface properties. <b>2020</b> , 8, 76-88		3
230	Layer-specific cell differentiation in bi-layered vascular grafts under flow perfusion. <b>2019</b> , 12, 015009		20
229	Resorbable polymer electrospun nanofibers: History, shapes and application for tissue engineering. <b>2020</b> , 31, 617-625		59
228	Electrospun polyurethane-based vascular grafts: physicochemical properties and functioning in vivo. <b>2019</b> , 15, 015010		9

227	Potential Applications of Nanofibers in Beverage Industry. <b>2020</b> , 333-368	3
226	A simple and effective approach to produce tubular polysaccharide-based hydrogel scaffolds. <b>2020</b> , 137, 48510	6
225	A novel automated lumen segmentation and classification algorithm for detection of irregular protrusion after stents deployment. <b>2020</b> , 16, e2033	6
224	Tissue engineering of small-diameter vascular grafts. <b>2020</b> , 79-100	2
223	Design framework for mechanically tunable soft biomaterial composites enhanced by modified horseshoe lattice structures. <b>2020</b> , 16, 1473-1484	11
222	Matching Static and Dynamic Compliance of Small-Diameter Arteries, with Poly(lactide-co-caprolactone) Copolymers: In Vitro and In Vivo Studies. <b>2020</b> , 20, e1900234	7
221	Electrospinning of PCL/CEFUROXIMI fibrous scaffolds on 3D printed collectors. <b>2020</b> , 111, 1288-1299	5
220	Elastic and surgeon friendly electrospun tubes delivering PDGF-BB positively impact tendon rupture healing in a rabbit Achilles tendon model. <b>2020</b> , 232, 119722	16
219	Temperature Responsive Shape-Memory Scaffolds with Circumferentially Aligned Nanofibers for Guiding Smooth Muscle Cell Behavior. <b>2020</b> , 20, e1900312	9
218	Electrospun polyethylene terephthalate (PET) nanofibrous conduit for biomedical application. <b>2020</b> , 31, 284-296	18
217	Poly(Vinyl Alcohol)-Based Nanofibrous Electrospun Scaffolds for Tissue Engineering Applications. <i>Polymers</i> , <b>2019</b> , 12,	65
216	Bioresorbable and degradable behaviors of PGA: Current state and future prospects. <b>2020</b> , 60, 2657-2675	14
215	The effect of pore diameter on neo-tissue formation in electrospun biodegradable tissue-engineered arterial grafts in a large animal model. <i>Acta Biomaterialia</i> , <b>2020</b> , 115, 176-184	17
214	Cellular uptake and retention of nanoparticles: Insights on particle properties and interaction with cellular components. <b>2020</b> , 25, 101692	19
213	Superhydrophilic Polyurethane/Polydopamine Nanofibrous Materials Enhancing Cell Adhesion for Application in Tissue Engineering. <b>2020</b> , 21,	9
212	Characterising Vascular Cell Monolayers Using Electrochemical Impedance Spectroscopy and a Novel Electroanalytical Plot. <b>2020</b> , 13, 89-101	
211	Merging 3D printing with electrospun biodegradable small-caliber vascular grafts immobilized with VEGF. <b>2020</b> , 30, 102306	5
<b>2</b> 10	Engineered biomaterials for heart disease. <b>2020</b> , 66, 246-254	9

209	Long-term results of triple-layered small diameter vascular grafts in sheep carotid arteries. <b>2020</b> , 85, 1-6	4
208	Electrospinning-electrospraying of poly(acid lactic) solutions in binary chloroform/formic acid and chloroform/acetic acid mixtures. <b>2020</b> , 320, 114448	5
207	3D Bioprinting-Tunable Small-Diameter Blood Vessels with Biomimetic Biphasic Cell Layers. <b>2020</b> , 12, 45904-45915	23
206	Development and evaluation of a novel beneficent antimicrobial bioscaffold based on animal waste-fish swim bladder (FSB) doped with silver nanoparticles. <b>2020</b> , 188, 109823	6
205	Magnetron plasma mediated immobilization of hyaluronic acid for the development of functional double-sided biodegradable vascular graft. <b>2020</b> , 529, 147196	3
204	Gold Nanoparticle-Based Platforms for Diagnosis and Treatment of Myocardial Infarction. <b>2020</b> , 6, 6460-6477	9
203	Elastomeric Electrospun Scaffolds of a Biodegradable Aliphatic Copolyester Containing PEG-Like Sequences for Dynamic Culture of Human Endothelial Cells. <b>2020</b> , 10,	1
202	Melt Electrowriting of Complex 3D Anatomically Relevant Scaffolds. <b>2020</b> , 8, 793	23
201	In vitro study on electrospun lecithin-based poly (L-lactic acid) scaffolds and their biocompatibility. <b>2020</b> , 31, 2285-2298	6
200	Construction and performance evaluation of Hep/silk-PLCL composite nanofiber small-caliber artificial blood vessel graft. <b>2020</b> , 259, 120288	16
199	Fabrication of Blood Capillary Models for Live Imaging Microarray Analysis. <b>2020</b> , 11,	5
198	Electrospun scaffold fiber orientation regulates endothelial cell and platelet properties associated with angiogenesis and hemocompatibility. <b>2020</b> , 14, 100942	2
197	Modeling Endothelialized Hepatic Tumor Microtissues for Drug Screening. <b>2020</b> , 7, 2002002	17
196	Automatic Shape Optimization of Patient-Specific Tissue Engineered Vascular Grafts for Aortic Coarctation. <b>2020</b> , 2020, 2319-2323	4
195	Mechanical Properties of Electrospun, Blended Fibrinogen: PCL Nanofibers. 2020, 10,	5
194	Amalgamated fiber/hydrogel composites based on semi-interpenetrating polymer networks and electrospun nanocomposite fibrous mats. <b>2020</b> , 140, 110041	3
193	Synthesis of Urethane-Type Polymers with Polydimethylsiloxane Blocks for the Manufacture of Fibrous Matrices by Electrospinning. <b>2020</b> , 62, 385-393	О
192	Electrospun biomimetic polymer nanofibers as vascular grafts. <b>2020</b> , e203	2

191	Future Perspectives in Small-Diameter Vascular Graft Engineering. 2020, 7,		20
190	Electrospun Bioabsorbable Fibers Containing -Nitrosoglutathione for Tissue Engineering Applications <i>ACS Applied Bio Materials</i> , <b>2020</b> , 3, 7677-7686	ļ. <b>1</b>	3
189	Bioresorbable Polymeric Scaffold in Cardiovascular Applications. <b>2020</b> , 21,		20
188	Effect of introduction of tetrabutylammonium bromide on properties of poly (L-lactic acid) tubular scaffold prepared by electrospinning. <b>2020</b> , 15, 277-282		1
187	Electrospun PVA/TiC Nanofibers for High Performance Capacitive Humidity Sensing. <b>2020</b> , 157, 104974		8
186	Controllable synthesis of biomimetic nano/submicro-fibrous tubes for potential small-diameter vascular grafts. <b>2020</b> , 8, 5694-5706		7
185	Functional Micro- and Nanofibers Obtained by Nonwoven Post-Modification. <i>Polymers</i> , <b>2020</b> , 12,	l·5	14
184	Strategies to Improve Nanofibrous Scaffolds for Vascular Tissue Engineering. <b>2020</b> , 10,		13
183	Dual source co-electrospun tubular scaffold generated from gelatin-vinyl acetate and poly-e-caprolactone for smooth muscle cell mediated blood vessel engineering. <i>Materials Science and Engineering C</i> , <b>2020</b> , 114, 111030	3.3	4
182	Dynamic wrinkling of a hydrogelBlastomer hybrid microtube enables blood vessel-like hydraulic pressure sensing and flow regulation. <b>2020</b> , 7, 2150-2157		17
181	Oxygen-Releasing Antibacterial Nanofibrous Scaffolds for Tissue Engineering Applications. <i>Polymers</i> , <b>2020</b> , 12,	l·5	22
180	Nanomechanical characterization of electrospun biodegradable vascular scaffolds. <b>2020</b> , 74, 3467-3474		3
179	In vitro endothelial differentiation evaluation on polycaprolactone-methoxy polyethylene glycol electrospun membrane and fabrication of multilayered small-diameter hybrid vascular graft. <b>2020</b> , 34, 1395-1408		5
178	Tissue Ingrowth Markedly Reduces Mechanical Anisotropy and Stiffness in Fibre Direction of Highly Aligned Electrospun Polyurethane Scaffolds. <b>2020</b> , 11, 456-468		1
177	Electrospun polyester-urethane scaffold preserves mechanical properties and exhibits strain stiffening during in situ tissue ingrowth and degradation. <b>2020</b> , 2, 1		2
176	Evaluation of the potential of chimeric spidroins/poly(L-lactic-co-Laprolactone) (PLCL) nanofibrous scaffolds for tissue engineering. <i>Materials Science and Engineering C</i> , <b>2020</b> , 111, 110752	3.3	5
175	Halochromic Polystyrene Nanofibers Obtained by Solution Blow Spinning for Wine pH Sensing. <b>2020</b> , 20,		10
174	Alignment-Improved and Diameter-Reduced Electrospun Polymer Fibers via the Hot-Stretching Process. <i>Macromolecular Materials and Engineering</i> , <b>2020</b> , 305, 1900637	.9	4

173	Local Delivery of Dual MicroRNAs in Trilayered Electrospun Grafts for Vascular Regeneration. <b>2020</b> , 12, 6863-6875		25
172	Design and in vitro evaluation of electrospun shape memory polyurethanes for self-fitting tissue engineering grafts and drug delivery systems. <i>Materials Science and Engineering C</i> , <b>2020</b> , 110, 110675	8.3	24
171	Bioresorbable silk grafts for small diameter vascular tissue engineering applications: In vitro and in vivo functional analysis. <i>Acta Biomaterialia</i> , <b>2020</b> , 105, 146-158	10.8	36
170	Polycaprolactone vascular graft with epigallocatechin gallate embedded sandwiched layer-by-layer functionalization for enhanced antithrombogenicity and anti-inflammation. <b>2020</b> , 320, 226-238		18
169	Polyurethane/polycaprolactone membrane grafted with conjugated linoleic acid for artificial vascular graft application. <b>2020</b> , 21, 56-66		18
168	Insights into the angiogenic effects of nanomaterials: mechanisms involved and potential applications. <i>Journal of Nanobiotechnology</i> , <b>2020</b> , 18, 9	9.4	26
167	In Vivo Stability of Polyurethane-Based Electrospun Vascular Grafts in Terms of Chemistry and Mechanics. <i>Polymers</i> , <b>2020</b> , 12,	4.5	7
166	Fabrication and characterization of a novel compliant small-diameter PET/PU/PCL triad-hybrid vascular graft. <b>2020</b> , 15, 055004		11
165	Low-cost FDM 3D-printed modular electrospray/electrospinning setup for biomedical applications. <b>2020</b> , 6, 8		2
164	Human Peripheral Blood-Derived Endothelial Colony-Forming Cells Are Highly Similar to Mature Vascular Endothelial Cells yet Demonstrate a Transitional Transcriptomic Signature. <b>2020</b> , 9,		12
163	The properties of nanofiber scaffolds of polyurethane-Cinnamomum zeylanicum against pathogens of Pseudomonas aeruginosa and Staphylococcus aureus. <b>2021</b> , 78, 223-245		1
162	Two Sides of Electrospun Fiber in Promoting and Inhibiting Biomedical Processes. <b>2021</b> , 4, 2000096		8
161	Electrospinning for tissue engineering applications. <i>Progress in Materials Science</i> , <b>2021</b> , 117, 100721	42.2	120
160	Comparison of small-diameter decellularized scaffolds from the aorta and carotid artery of pigs. <b>2021</b> , 44, 350-360		1
159	Poloxamer additive as luminal surface modification to modulate wettability and bioactivities of small-diameter polyurethane/polycaprolactone electrospun hollow tube for vascular prosthesis applications. <b>2021</b> , 26, 101771		3
158	Covalent grafting of PEG and heparin improves biological performance of electrospun vascular grafts for carotid artery replacement. <i>Acta Biomaterialia</i> , <b>2021</b> , 119, 211-224	10.8	15
157	Multidrug-loaded electrospun micro/nanofibrous membranes: Fabrication strategies, release behaviors and applications in regenerative medicine. <b>2021</b> , 330, 1264-1287		7
156	Electrospun GelMA fibers and p(HEMA) matrix composite for corneal tissue engineering. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111720	8.3	15

155	Induction of scaffold angiogenesis by recipient vasculature precision micropuncture. <b>2021</b> , 134, 104121	1
154	Poly(l-Lactic Acid)/Poly(Butylene Succinate) Biobased Biodegradable Blends. <b>2021</b> , 61, 457-492	8
153	Designed and fabrication of triple-layered vascular scaffold with microchannels. 2021, 32, 714-734	7
152	Fibroblast cell derived extracellular matrix containing electrospun scaffold as a hybrid biomaterial to promote in vitro endothelial cell expansion and functionalization. <i>Materials Science and Engineering C</i> , <b>2021</b> , 120, 111659	8.3 7
151	A novel thermoresponsive membrane as potential material for tissue engineering. <b>2021</b> , 48, 653-664	0
150	Current Developments in Diagnostic Biosensor Technology: Relevance to Therapeutic Intervention of Infectious and Inflammatory Diseases of Human. <b>2021</b> , 1-36	2
149	Facile fabrication of soy protein isolate-functionalized nanofibers with enhanced biocompatibility and hemostatic effect on full-thickness skin injury. <b>2021</b> , 13, 15743-15754	1
148	Stromal cell-derived factor loaded co-electrospun hydrophilic/hydrophobic bicomponent membranes for wound protection and healing <b>2020</b> , 11, 572-583	4
147	Electrospun VDF-TeFE Scaffolds Modified by Copper and Titanium in Magnetron Plasma and Their Antibacterial Activity against MRSA. <b>2021</b> , 9, 5	О
146	Biomaterials for Soft Tissue Engineering: Concepts, Methods, and Applications. <b>2021</b> , 381-422	
145	Integration of Electrospun Membranes into Low-Absorption Thermoplastic Organ-on-Chip. <b>2021</b> , 7, 300	
		6-301 <i>7</i>
144	Electrospun Biomaterials[Applications and Processing. 49, 91-100	6-301 <i>7</i> <sub>7</sub>
144	Electrospun Biomaterials [Applications and Processing. 49, 91-100]  Development of calixarene-based drug nanocarriers. 2021, 325, 115246	,
		0
143	Development of calixarene-based drug nanocarriers. <b>2021</b> , 325, 115246  The mechanical characterization of blood vessels and their substitutes in the continuous quest for	0 12
143	Development of calixarene-based drug nanocarriers. 2021, 325, 115246  The mechanical characterization of blood vessels and their substitutes in the continuous quest for physiological-relevant performances. A critical review. 2021, 10, 100106  Three-dimensional silk fibroin microsphere-nanofiber scaffolds for vascular tissue engineering.	12
143 142 141	Development of calixarene-based drug nanocarriers. 2021, 325, 115246  The mechanical characterization of blood vessels and their substitutes in the continuous quest for physiological-relevant performances. A critical review. 2021, 10, 100106  Three-dimensional silk fibroin microsphere-nanofiber scaffolds for vascular tissue engineering. 2021, 9, 100051  PLA electrospun nanofibers modified with polypyrrole-grafted gelatin as bioactive	o 12 13

137	The Evolution of Fabrication Methods in Human Retina Regeneration. 2021, 11, 4102	0
136	Suturable elastomeric tubular grafts with patterned porosity for rapid vascularization of 3D constructs. <b>2021</b> ,	4
135	3D PCL/Gelatin/Genipin Nanofiber Sponge as Scaffold for Regenerative Medicine. <i>Materials</i> , <b>2021</b> , 14,	5
134	Development of Multi-layer Tubular Vascular Scaffold to Enhance Compliance by Exhibiting a Negative Poisson Ratio. <b>2021</b> , 8, 841-853	2
133	Effect of electrospinning parameters on the mechanical and morphological characteristics of small diameter PCL tissue engineered blood vessel scaffolds having distinct micro and nano fibre populations IA DOE approach. <b>2021</b> , 96, 107119	3
132	Fabrication and characterization of hollow electrospun PLA structure through a modified electrospinning method applicable as vascular graft. <b>2021</b> , 44, 1	2
131	Modern World Applications for Nano-Bio Materials: Tissue Engineering and COVID-19. <b>2021</b> , 9, 597958	10
130	Spectroscopic Characterization of a Polycaprolactone-Chitosan Electrospun Scaffold Modified with Photocatalytic TiOlNanoparticles for Improved Wound Healing: A Complete Evaluation. <b>2021</b> , 17, 889-900	3
129	Electrospinning of small diameter vascular grafts with preferential fiber directions and comparison of their mechanical behavior with native rat aortas. <i>Materials Science and Engineering C</i> , <b>2021</b> , 124, 1120 $85^3$	2
128	The performance of heparin modified poly(Etaprolactone) small diameter tissue engineering vascular graft in canine-A long-term pilot experiment in vivo. <b>2021</b> , 109, 2493-2505	1
127	Recent advancements in the bioprinting of vascular grafts. <b>2021</b> , 13,	6
126	Telmisartan loaded polycaprolactone/gelatin-based electrospun vascular scaffolds. 1-16	Ο
125	New Vascular Graft Using the Decellularized Human Chorion Membrane. 2021, 7, 3423-3433	1
124	Challenges and strategies for endothelialization and long-term lumen patency of vascular grafts.  Bioactive Materials, <b>2021</b> , 6, 1791-1809	32
123	Multi-scale hierarchical scaffolds with aligned micro-fibers for promoting cell alignment. <b>2021</b> , 16,	5
122	Blood compatibility and cell response improvement of poly glycerol sebacate/poly lactic acid scaffold for vascular graft applications. <b>2021</b> , 109, 2673-2684	O
121	Kink-free electrospun PET/PU-based vascular grafts with 3D-printed additive manufacturing reinforcement. <b>2021</b> , 36, 4013	2
120	Anticoagulant Hydrogel Tubes with Poly(e-Caprolactone) Sheaths for Small-Diameter Vascular Grafts. <i>Advanced Healthcare Materials</i> , <b>2021</b> , 10, e2100839	3

119	A modified 3D printer as a hybrid bioprinting-electrospinning system for use in vascular tissue engineering applications. <b>2021</b> , 94, 52-60		4
118	Parameters Investigation of Tubular Electrospinning System for the Fabrication of Polyurethane (PU)/Polycaprolactone (PCL) Small Hollow Tube for Vascular Engineering Applications. <b>2022</b> , 403-413		
117	In vitro and in vivo advancement of multifunctional electrospun nanofiber scaffolds in wound healing applications: Innovative nanofiber designs, stem cell approaches, and future perspectives. <b>2021</b> ,		8
116	In Vitro Strategies to Vascularize 3D Physiologically Relevant Models. <b>2021</b> , 8, e2100798		5
115	Electrospun CoreBhell Structure Fibers for Puerarin-Loaded Vascular Grafts. <i>ACS Applied Polymer Materials</i> , <b>2021</b> , 3, 4195-4202	4.3	1
114	Bioengineering silk into blood vessels. <b>2021</b> , 49, 2271-2286		Ο
113	Tissue-Engineered Vascular Graft with Co-Culture of Smooth Muscle Cells and Human Endothelial Vein Cells on an Electrospun Poly(lactic-co-glycolic acid) Microtube Array Membrane. <b>2021</b> , 11,		1
112	3D reconstruction of bias effects on porosity, alignment and mesoscale structure in electrospun tubular polycaprolactone. <b>2021</b> , 232, 124120		1
111	End-Point Immobilization of Heparin on Electrospun Polycarbonate-Urethane Vascular Graft. <b>2022</b> , 2375, 47-59		Ο
110	A fabric reinforced small diameter tubular graft for rabbits Larotid artery defect. 2021, 225, 109274		8
109	Tailoring the multiscale architecture of electrospun membranes to promote 3D cellular infiltration. <i>Materials Science and Engineering C</i> , <b>2021</b> , 130, 112427	8.3	
108	Development of photo-crosslinkable collagen hydrogel building blocks for vascular tissue engineering applications: A superior alternative to methacrylated gelatin?. <i>Materials Science and Engineering C</i> , <b>2021</b> , 130, 112460	8.3	2
107	Micro-and-nanometer topological gradient of block copolymer fibrous scaffolds towards region-specific cell regulation. <b>2022</b> , 606, 248-260		3
106	Morphological analysis of fibrous webs electrospun from Polycaprolactone, polylactic acid and their blends in chloroform based solvent systems. <b>2021</b> , 46, 2161-2166		1
105	Design and characterization of small-diameter tissue-engineered blood vessels constructed by electrospun polyurethane-core and gelatin-shell coaxial fiber. <b>2021</b> , 12, 5769-5788		2
104	Chapter 8:Hydrogel Processing Techniques and Vascular Tissue Engineering. <b>2021</b> , 207-237		
103	Peptide-Engineered Fluorescent Nanomaterials: Structure Design, Function Tailoring, and Biomedical Applications. <b>2021</b> , 17, e2005578		13
102	Nanofiber composites in blood vessel tissue engineering. <b>2017</b> , 483-506		7

101	Cardiovascular tissue engineering. <b>2020</b> , 249-272	3
100	Physical characterization of electrospun polycaprolactone via laser micrometry: Porosity and condition-dependent jet instabilities. <b>2020</b> , 211, 123044	2
99	Tissue ingrowth markedly reduces mechanical anisotropy and stiffness in fibre direction of highly aligned electrospun polyurethane scaffolds.	1
98	A Review of Three-dimensional Printing for Biomedical and Tissue Engineering Applications. <b>2018</b> , 12, 241-255	8
97	In Vitro and In Vivo Evaluation of Poly (3-hydroxybutyrate)/Carbon Nanotubes Electrospun Scaffolds for Periodontal Ligament Tissue Engineering. <b>2020</b> , 21, 18-30	5
96	Electrospun Nanofibers of Natural and Synthetic Polymers as Artificial Extracellular Matrix for Tissue Engineering. <b>2020</b> , 11,	35
95	Multifunctional Nanomaterials for Multifaceted Applications in Biomedical Arena. 2017, 13, 890-906	11
94	Delivery of targeted gene therapies using a hybrid cryogel-coated prosthetic vascular graft. <b>2019</b> , 7, e7377	4
93	Biodegradable highly porous interconnected poly(Exaprolactone) scaffolds by supercritical foaming for small-diameter vascular tissue engineering.	1
92	Research progress, models and simulation of electrospinning technology: a review. <b>2021</b> , 1-47	6
91	Biomolecule Modification of Scaffolds in Vascular Regeneration. <b>2016</b> , 6, 673-681	
90	A study of physical and biological properties of 3D matrices made from polytrimethylene carbonate and its copolymers. <b>2018</b> , XIII,	
89	BIODEGRADABLE VASCULAR GRAFT REINFORCED WITH A BIODEGRADABLE SHEATH. <b>2019</b> , 8, 87-97	
88	Electrospun polyester-urethane scaffold preserves mechanical properties and exhibits strain stiffening during in situ tissue ingrowth and degradation.	
87	New Method for Preparing Small-Caliber Artificial Blood Vessel with Controllable Microstructure on the Inner Wall Based on Additive Material Composite Molding. <b>2021</b> , 12,	1
86	Textile-Reinforced Scaffolds for Vascular Tissue Engineering. <b>2020</b> , 1-25	O
85	Textile-Reinforced Scaffolds for Vascular Tissue Engineering. <b>2020</b> , 339-363	
84	Digital 3D Topographic Microscopy: Bridging the Gaps Between Macroscopy, Microscopy and Scanning Electron Microscopy. <b>2021</b> , 49, 963-970	O

83	Synthesis and Characterization of Polycaprolactone/Cellulose Acetate by Electrospinning for Wound Dressing Applications. 981, 291-295		2
82	pre-vascularization strategies for tissue engineered constructs-Bioprinting and others. <b>2017</b> , 3, 008		3
81	Electrospun Porous Biobased Polymer Mats for Biomedical Applications. 2022, 539-586		1
80	Use of Electrospun Phenylalanine/Poly-ECaprolactone Chiral Hybrid Scaffolds to Promote Endothelial Remodeling <b>2021</b> , 9, 773635		O
79	Silk-based bilayered small diameter woven vascular conduits for improved mechanical and cellular characteristics. 1-10		
78	Porous Bilayer Vascular Grafts Fabricated from Electrospinning of the Recombinant Human Collagen (RHC) Peptide-Based Blend. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
77	Freestanding vascular scaffolds engineered by direct 3D printing with Gt-Alg-MMT bioinks <i>Materials Science and Engineering C</i> , <b>2022</b> , 112658	8.3	0
76	Effect of Post-Treatment on Mechanical and Biological Properties of Coaxial Electrospun CoreBhell Structured Poly(lactic-co-glycolic acid)/Gelatin Methacrylamide Fibrous Scaffolds. <i>ACS Applied Polymer Materials</i> , <b>2022</b> , 4, 987-998	4.3	
75	Applications of electrospun scaffolds with enlarged pores in tissue engineering 2022,		1
74	(Bio)manufactured Solutions for Treatment of Bone Defects with an Emphasis on US-FDA Regulatory Science Perspective. 2100073		1
73	Preparation of Poly(Eaprolactone)/Poly(ester amide) Electrospun Membranes for Vascular Repair. 1		1
72	3D-bioprinted vascular scaffold with tunable mechanical properties for simulating and promoting neo-vascularization. <b>2022</b> , 3, 199-208		4
71	Combination of 3D Printing and Electrospinning Techniques for Biofabrication. 2101309		2
70	Evaluation of physicochemical properties of polycaprolactone/gelatin/polydimethylsiloxane hybrid nanofibers as potential scaffolds for elastic tissue engineering. 1		1
69	Electrospinning of poly(decamethylene terephthalate) to support vascular graft applications. <b>2022</b> , 165, 111003		1
68	A novel small diameter nanotextile arterial graft is associated with surgical feasibility and safety and increased transmural endothelial ingrowth in pig <i>Journal of Nanobiotechnology</i> , <b>2022</b> , 20, 71	9.4	1
67	Medical applications of porous biomaterials: features of porosity and tissue-specific implications for biocompatibility <i>Advanced Healthcare Materials</i> , <b>2022</b> , e2102087	10.1	6
66	Recent Advances and Biomedical Applications of Peptide-Integrated Conducting Polymers <i>ACS Applied Bio Materials</i> , <b>2022</b> ,	4.1	2

65	Improving Biocompatibility of Polyester Fabrics through Polyurethane/Gelatin Complex Coating for Potential Vascular Application <i>Polymers</i> , <b>2022</b> , 14,	4.5	O
64	In Vivo Evaluation of Gamma-Irradiated and Heparin-Immobilized Small-Diameter Polycaprolactone Vascular Grafts with VEGF in Aged Rats <i>Polymers</i> , <b>2022</b> , 14,	4.5	O
63	Accelerated Endothelialization of Nanofibrous Scaffolds for Biomimetic Cardiovascular Implants <i>Materials</i> , <b>2022</b> , 15,	3.5	1
62	Regenerative therapies for tympanic membrane. <i>Progress in Materials Science</i> , <b>2022</b> , 127, 100942	42.2	O
61	Bioactive coating for tissue-engineered smalldiameter vascular grafts. <i>Vestnik Transplantologii I Iskusstvennykh Organov</i> , <b>2022</b> , 23, 119-131	0.3	
60	The effect of surface morphology on endothelial and smooth muscle cells growth on blow-spun fibrous scaffolds <i>Journal of Biological Engineering</i> , <b>2021</b> , 15, 27	6.3	O
59	Fabrication of heparinized small diameter TPU/PCL bi-layered artificial blood vessels and in vivo assessment in a rabbit carotid artery replacement model <i>Materials Science and Engineering C</i> , <b>2021</b> , 112628	8.3	0
58	Single-cell RNA sequencing reveals the diversity and biology of valve cells in cardiac valve disease <i>Journal of Cardiology</i> , <b>2022</b> ,	3	
57	Tubular TPU/SF nanofibers covered with chitosan-based hydrogels as small-diameter vascular grafts with enhanced mechanical properties <i>Scientific Reports</i> , <b>2022</b> , 12, 6179	4.9	5
56	Investigation of Effects of Electrospinning Parameters on Transcription Quality of Nanofibrous Bifurcated-Tubular Scaffold. <i>Macromolecular Materials and Engineering</i> , 2200030	3.9	
55	Data_Sheet_1.pdf. <b>2020</b> ,		
54	Video_1.AVI. <b>2020</b> ,		
53	Video_10.MP4. <b>2020</b> ,		
52	Video_2.AVI. <b>2020</b> ,		
51	Video_3.AVI. <b>2020</b> ,		
50	Video_4.AVI. <b>2020</b> ,		
49	Video_5.MP4. <b>2020</b> ,		

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47	Video_7.MP4. <b>2020</b> ,		
46	Video_8.MP4. <b>2020</b> ,		
45	Video_9.MP4. <b>2020</b> ,		
44	Scaffold Engineering with Flavone-Modified Biomimetic Architecture for Vascular Tissue Engineering Applications <i>Tissue Engineering and Regenerative Medicine</i> , <b>2022</b> ,	4.5	O
43	Blood-Vessel-Inspired Hierarchical Trilayer Scaffolds: PCL/Gelatin-Driven Protein Adsorption and Cellular Interaction. <i>Polymers</i> , <b>2022</b> , 14, 2135	4.5	1
42	Development of Innovative Biomaterials and Devices for the Treatment of Cardiovascular Diseases. <i>Advanced Materials</i> , 2201971	24	5
41	Biotextile-based scaffolds in tissue engineering. <b>2022</b> , 285-313		
40	Electrospinning-Generated Nanofiber Scaffolds Suitable for Integration of Primary Human Circulating Endothelial Progenitor Cells. <i>Polymers</i> , <b>2022</b> , 14, 2448	4.5	1
39	Electrospinning and Three-Dimensional (3D) Printing for Biofabrication. 2022, 555-604		О
38	Biomedical Applications of Fibers Produced by Electrospinning, Microfluidic Spinning and Combinations of Both. <b>2022</b> , 251-295		
37	Preparation and Characterization of Tilapia Collagen-Thermoplastic Polyurethane Composite Nanofiber Membranes. <i>Marine Drugs</i> , <b>2022</b> , 20, 437	6	
36	Step-wise CAG@PLys@PDA-Cu2+ modification on micropatterned nanofibers for programmed endothelial healing. <i>Bioactive Materials</i> , <b>2022</b> ,	16.7	О
35	Valorization of a Levulinic Acid Platform through Electrospinning of Polyhydroxyalkanoate-Based Fibrous Membranes for In Vitro Modeling of Biological Barriers. <i>ACS Applied Polymer Materials</i> ,	4.3	О
34	Role of Biomaterials in Cardiac Repair and Regeneration: Therapeutic Intervention for Myocardial Infarction. <b>2022</b> , 8, 3271-3298		2
33	Structural design and mechanical performance of composite vascular grafts.		
32	Influence of Starch on the Structure <b>P</b> roperties Relationship in Polyethylene Glycol/Polycaprolactone Diol Polyurethanes. <b>2022</b> , 14, 3184		О
31	Surface modification with hydrophilic and heparin-loaded coating for endothelialization and anticoagulation promotion of vascular scaffold. <b>2022</b> , 219, 1146-1154		0
30	Nanoparticles for Tissue Engineering: Type, Properties, and Characterization. <b>2022</b> , 1-19		О

29	Development of biosensors for application in industrial biotechnology. <b>2023</b> , 737-753	O
28	Synthesis and Biomedical Applications of Zirconium Nanoparticles: Advanced Leaps and Bounds in the Recent Past. <b>2022</b> , 2022, 1-9	O
27	Matrix Regeneration Ability In Situ Induced by a Silk Fibroin Small-Caliber Artificial Blood Vessel In Vivo. <b>2022</b> , 14, 3754	O
26	Construction of enzyme-laden vascular scaffolds based on hyaluronic acid oligosaccharides-modified collagen nanofibers for antithrombosis and in-situ endothelialization of tissue-engineered blood vessels. <b>2022</b> ,	O
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12	Biodegradable Scaffolds for Vascular Regeneration Based on Electrospun Poly(L-Lactide-co-Glycolide)/Poly(Isosorbide Sebacate) Fibers. <b>2023</b> , 24, 1190	O

#### CITATION REPORT

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1	Melt electrowritten scaffold architectures to mimic vasculature mechanics and control neo-tissue orientation.	O