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Electrospinning of nano/micro scale poly(L-lactic acid) aligned fibers and their potential in neural tissue engineering

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1554	Nanofibres and their Influence on Cells for Tissue Regeneration. 2005 , 58, 704		39
1553	Characterization of the surface biocompatibility of the electrospun PCL-collagen nanofibers using fibroblasts. 2005 , 6, 2583-9		412
1552	Enzyme-Mediated Degradation of Peptide-Amphiphile Nanofiber Networks. 2005 , 17, 2612-2617		163
1551	Nano- and micro-fiber combined scaffolds: a new architecture for bone tissue engineering. 2005 , 16, 1099-104		278
1550	Scaffolds, Stem Cells, and Tissue Engineering: A Potent Combination!. 2005 , 58, 691		21
1549	25 Tissue engineering: the multidisciplinary epitome of hope and despair. 2005 , 483-524		1
1548	Requirements for the Manufacturing of Scaffold Biomaterial With Features at Multiple Scales. 2005 , 217		
1547	Ambulatory health care and the nurse practitioner. 1977 , 14, 57-63		401
1546	BACK MATTER. 2005 , 341-382		2
1545	Electrospinning of poly(lactic acid) stereocomplex nanofibers. 2006 , 7, 3316-20		154
1544	Tissue-Engineered Peripheral Nerve. 2006 ,		4
1543	Investigating the cellular response to nanofibrous materials by use of a multi-walled carbon nanotube model. 2006 , 1, 1-12		24
1542	Biodegradable polymer nanofiber mesh to maintain functions of endothelial cells. 2006 , 12, 2457-66		116
1541	Potential of stem cell based therapy and tissue engineering in the regeneration of the central nervous system. 2006 , 1, R38-44		22
1540	Biomimetic electrospun nanofibers for tissue regeneration. 2006 , 1, R45-53		202
1539	Bio-inspired Nanomaterials. 2006 , 427-466		
1538	Direct in vitro electrospinning with polymer melts. 2006 , 7, 686-90		184

1537	Growth of mesenchymal stem cells on electrospun type I collagen nanofibers. 2006 , 24, 2391-7		276
1536	Effects of mechanical stimuli and microfiber-based substrate on neurite outgrowth and guidance. 2006 , 101, 120-6		37
1535	Gelatin and gelatin-hyaluronic acid nanofibrous membranes produced by electrospinning of their aqueous solutions. 2006 , 7, 2243-7		142
1534	Bioengineered strategies for spinal cord repair. 2006 , 23, 496-507		172
1533	Electrospun nanofibers: solving global issues. 2006 , 9, 40-50		1034
1532	Cellular responses to a nanofibrous environment. 2006 , 1, 34-43		56
1531	Characterisation of electrospun polystyrene scaffolds for three-dimensional in vitro biological studies. <i>Biomaterials</i> , 2006 , 27, 3136-46	15.6	211
1530	Modulation of anisotropy in electrospun tissue-engineering scaffolds: Analysis of fiber alignment by the fast Fourier transform. <i>Biomaterials</i> , 2006 , 27, 5524-34	15.6	246
1529	Effect of fiber diameter and orientation on fibroblast morphology and proliferation on electrospun poly(D,L-lactic-co-glycolic acid) meshes. <i>Biomaterials</i> , 2006 , 27, 5681-8	15.6	312
1528	Topographical control of neurite extension on stripe-patterned polymer films. 2006 , 284-285, 470-474		21
1527	Electrospinning polyaniline-contained gelatin nanofibers for tissue engineering applications. <i>Biomaterials</i> , 2006 , 27, 2705-15	15.6	720
1526	A nanofibrous composite membrane of PLGA α chitosan/PVA prepared by electrospinning. 2006 , 42, 2013-2022		218
1525	Nano-featured scaffolds for tissue engineering: a review of spinning methodologies. 2006 , 12, 435-47		329
1524	Review: ex vivo engineering of living tissues with adult stem cells. 2006 , 12, 3007-19		193
1523	3D polymer scaffolds for tissue engineering. 2006 , 1, 281-96		58
1522	Electrospinning of hexanoyl chitosan/poly lactide blends. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 547-65	3.5	64
1521	Electrospun scaffold tailored for tissue-specific extracellular matrix. 2006 , 1, 918-29		124
1520	Living in three dimensions: 3D nanostructured environments for cell culture and regenerative medicine. 2006 , 45, 215-27		104

1519	Electrospun micro- and nanofibers for sustained delivery of paclitaxel to treat C6 glioma in vitro. 2006 , 23, 1817-26		272
1518	Methods for fabrication of nanoscale topography for tissue engineering scaffolds. 2006 , 34, 89-101		277
1517	Effect of fiber diameter on spreading, proliferation, and differentiation of osteoblastic cells on electrospun poly(lactic acid) substrates. <i>Biomaterials</i> , 2006 , 27, 596-606	15.6	514
1516	Guidance of engineered tissue collagen orientation by large-scale scaffold microstructures. 2006 , 39, 1819-31		77
1515	Three-dimensional nanofibrillar surfaces covalently modified with tenascin-C-derived peptides enhance neuronal growth in vitro. 2006 , 76, 851-60		86
1514	Using single-walled carbon nanotubes nonwoven films as scaffolds to enhance long-term cell proliferation in vitro. 2006 , 79, 298-306		64
1513	An aligned nanofibrous collagen scaffold by electrospinning and its effects on in vitro fibroblast culture. 2006 , 79, 456-63		254
1512	An improved hydrophilicity via electrospinning for enhanced cell attachment and proliferation. 2006 , 78, 283-90		228
1511	Dual-syringe reactive electrospinning of cross-linked hyaluronic acid hydrogel nanofibers for tissue engineering applications. 2006 , 6, 811-7		111
1510	The role of electrospinning in the emerging field of nanomedicine. 2006 , 12, 4751-70		222
1509	PLLA/HA Electrospin Hybrid Nanofiber Scaffolds: Morphology, In Vitro Degradation and Cell Culture Potential. 2006 , 11-12, 243-246		9
1508	Electrospinning versus knitting: two scaffolds for tissue engineering of the aortic valve. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2006 , 17, 77-89	3.5	80
1507	Effects of annealing on the structural and mechanical properties of electrospun polymeric nanofibres. 2006 , 17, 2649-54		87
1506	Evaluating neuronal and glial growth on electrospun polarized matrices: bridging the gap in percussive spinal cord injuries. 2007 , 3, 119-26		69
1505	Nanotechnology and Tissue Engineering: The Scaffold Based Approach. 2007 ,		2
1504	Cell Behavior Toward Nanostructured Surfaces. 261-295		6
1503	Applications of Nanotechnology/Nanomaterials in the Nervous System. 2007 , 135-179		
1502	Nanofibrous Scaffolds and their Biological Effects. 2007 ,		3

1501	Polymeric Nanofibers in Tissue Engineering. 2007 ,		5
1500	Nanostructures for Tissue Engineering/Regenerative Medicine. 375-407		3
1499	Nanophase Biomaterials for Tissue Engineering. 2007 ,		1
1498	Tissue engineering: a new take-off using nanofiber-based scaffolds. 2007 , 18, 3-17		26
1497	Quantitative method for the analysis of cell attachment using aligned scaffold structures. 2007 , 61, 587-590	10	
1496	Design strategies of tissue engineering scaffolds with controlled fiber orientation. 2007 , 13, 1845-66		345
1495	Aligned Protein-Polymer Composite Fibers Enhance Nerve Regeneration: A Potential Tissue-Engineering Platform. 2007 , 17, 1288-1296		304
1494	Electrospun nitrocellulose and nylon: design and fabrication of novel high performance platforms for protein blotting applications. 2007 , 1, 2		8
1493	Electrospinning Technology for Nanofibrous Scaffolds in Tissue Engineering. 2007 ,		20
1492	Robust cell migration and neuronal growth on pristine carbon nanotube sheets and yarns. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 1245-61	3-5	138
1491	Aligned arrays of biodegradable poly(epsilon-caprolactone) nanowires and nanofibers by template synthesis. 2007 , 7, 1463-8		121
1490	Interaction of embryonic cortical neurons on nanofibrous scaffolds for neural tissue engineering. 2007 , 4, 35-41		87
1489	Surface modification of polyester biomaterials for tissue engineering. 2007 , 2, R24-37		194
1488	Biomimetic materials processing for tissue-engineering processes. 2007 , 17, 3974		52
1487	Effect of a low-molecular-weight cross-linkable macromer on electrospinning of poly(lactide-co-glycolide) fibers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 1369-85	3-5	10
1486	Micro- and nanoscale technologies for tissue engineering and drug discovery applications. 2007 , 2, 1653-68		61
1485	Directed growth and differentiation of stem cells towards neural cell fates using soluble and surface-mediated cues. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 999-1015	3-5	10
1484	Biomaterials approach to expand and direct differentiation of stem cells. 2007 , 15, 467-80		239

1483	Materials Selection and Scaffold Fabrication for Tissue Engineering in Orthopaedics. 2007 , 259-288		4
1482	Bioactive nanofibers: synergistic effects of nanotopography and chemical signaling on cell guidance. 2007 , 7, 2122-8		315
1481	Electrospinning of Nanofibers from Polymer Solutions and Melts. 2007 , 41, 43-346		426
1480	Electrospun nanostructured scaffolds for tissue engineering applications. 2007 , 2, 929-42		161
1479	Role of fiber diameter in adhesion and proliferation of NIH 3T3 fibroblast on electrospun polycaprolactone scaffolds. 2007 , 13, 579-87		243
1478	Electrospun matrices made of poly(alpha-hydroxy acids) for medical use. 2007 , 2, 441-57		48
1477	Surface modification of biodegradable electrospun nanofiber scaffolds and their interaction with fibroblasts. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2007 , 18, 369-82	3.5	163
1476	. 2007 ,		21
1475	Enzymatic degradation of poly(L-lactic acid) fibers: Effects of small drawing. <i>Journal of Applied Polymer Science</i> , 2007 , 103, 2064-2071	2.9	9
1474	Aligned electrospun nanofibers specify the direction of dorsal root ganglia neurite growth. 2007 , 83, 636-45		302
1473	Preparation and characterization of poly(L-lactic acid)-chitosan hybrid scaffolds with drug release capability. 2007 , 81, 427-34		97
1472	The development of high-throughput screening approaches for stem cell engineering. 2007 , 11, 388-93		37
1471	Incremental changes in anisotropy induce incremental changes in the material properties of electrospun scaffolds. 2007 , 3, 651-61		49
1470	A dual-functional fibrous scaffold enhances P450 activity of cultured primary rat hepatocytes. 2007 , 3, 643-50		11
1469	Combinatorial protein display for the cell-based screening of biomaterials that direct neural stem cell differentiation. <i>Biomaterials</i> , 2007 , 28, 1048-60	15.6	151
1468	Polyurethane/poly(lactic-co-glycolic) acid composite scaffolds fabricated by thermally induced phase separation. <i>Biomaterials</i> , 2007 , 28, 2109-21	15.6	108
1467	A multi-functional scaffold for tissue regeneration: the need to engineer a tissue analogue. <i>Biomaterials</i> , 2007 , 28, 5093-9	15.6	200
1466	Bicomponent aligned nanofibers of N-carboxyethylchitosan and poly(vinyl alcohol). 2007 , 43, 2809-2818		40

1465	One dimensional nanostructured materials. 2007 , 52, 699-913	495
1464	Control of electrospun mat width through the use of parallel auxiliary electrodes. 2007 , 48, 5653-5661	78
1463	Extracellular matrix regenerated: tissue engineering via electrospun biomimetic nanofibers. 2007 , 56, 1349-1360	164
1462	Apparatus for preparing electrospun nanofibers: designing an electrospinning process for nanofiber fabrication. 2007 , 56, 1361-1366	76
1461	Engineering electrospun nanofibrillar surfaces for spinal cord repair: a discussion. 2007 , 56, 1340-1348	39
1460	Neuroprotection at the nanolevel--Part I: Introduction to nanoneurosurgery. 2007 , 1122, 169-84	13
1459	Microscale fish bowls: a new class of latex particles with hollow interiors and engineered porous structures in their surfaces. 2007 , 23, 10968-75	73
1458	Polymer carriers for drug delivery in tissue engineering. 2007 , 59, 187-206	371
1457	Functional electrospun nanofibrous scaffolds for biomedical applications. 2007 , 59, 1392-412	771
1456	Nanofiber technology: designing the next generation of tissue engineering scaffolds. 2007 , 59, 1413-33	899
1455	Surface modification of poly-L-lactic acid films by electrostatic self-assembly to promote vascular smooth muscle cells growth. 2007 , 1, 388-394	3
1454	Electrospun aliphatic polycarbonates as tailored tissue scaffold materials. <i>Biomaterials</i> , 2007 , 28, 2211-915.6	125
1453	Influence of membrane surface properties on the growth of neuronal cells isolated from hippocampus. 2008 , 325, 139-149	48
1452	Electrospinning: applications in drug delivery and tissue engineering. <i>Biomaterials</i> , 2008 , 29, 1989-2006	15.6 2436
1451	Electrospun poly(epsilon-caprolactone)/gelatin nanofibrous scaffolds for nerve tissue engineering. <i>Biomaterials</i> , 2008 , 29, 4532-9	15.6 916
1450	Electrospun nanofibers immobilized with collagen for neural stem cells culture. 2008 , 19, 847-54	89
1449	Development, optimization and characterization of a full-thickness tissue engineered human oral mucosal model for biological assessment of dental biomaterials. 2008 , 19, 1793-801	57
1448	In vitro and in vivo application of PLGA nanofiber for artificial blood vessel. 2008 , 16, 345-352	26

1447	Real-time in vivo monitoring of viable stem cells implanted on biocompatible scaffolds. 2008 , 35, 1887-98	32
1446	Applications of electrospun nanofibers. 2008 , 53, 2265-2286	147
1445	Mechanoactive scaffold induces tendon remodeling and expression of fibrocartilage markers. 2008 , 466, 1938-48	42
1444	Control of nanostructures in PVA, PVA/chitosan blends and PCL through electrospinning. 2008 , 31, 343-351	81
1443	Promoting neuron adhesion and growth. 2008 , 11, 36-43	123
1442	Putting Electrospun Nanofibers to Work for Biomedical Research. 2008 , 29, 1775-1792	286
1441	Nanofibrous poly(lactic acid)/hydroxyapatite composite scaffolds for guided tissue regeneration. 2008 , 8, 328-38	94
1440	Quantitative analysis of cell adhesion on aligned micro- and nanofibers. 2008 , 84, 291-9	133
1439	Enhanced nerve regeneration through a bilayered chitosan tube: the effect of introduction of glycine spacer into the CYIGSR sequence. 2008 , 85, 919-28	75
1438	Influences of mechanical properties and permeability on chitosan nano/microfiber mesh tubes as a scaffold for nerve regeneration. 2008 , 84, 557-66	60
1437	Polymer surfaces structured with random or aligned electrospun nanofibers to promote the adhesion of blood platelets. 2009 , 89, 168-75	11
1436	Interaction of cells and nanofiber scaffolds in tissue engineering. 2008 , 84, 34-48	242
1435	Development of a bioreactor for evaluating novel nerve conduits. 2008 , 99, 1250-60	28
1434	Preparation of poly(ether sulfone) nanofibers by gas-jet/electrospinning. <i>Journal of Applied Polymer Science</i> , 2008 , 107, 909-917	2.9 57
1433	Electrospinning of degradable elastomeric nanofibers with various morphology and their interaction with human fibroblasts. <i>Journal of Applied Polymer Science</i> , 2008 , 108, 491-497	2.9 13
1432	Wetting behavior of electrospun poly(L-lactic acid)/poly(vinyl alcohol) composite nonwovens. <i>Journal of Applied Polymer Science</i> , 2008 , 110, 3172-3177	2.9 18
1431	Nanostructured Biomaterials for Regeneration. 2008 , 18, 3566-3582	226
1430	Processing technologies for poly(lactic acid). 2008 , 33, 820-852	1859

1429	Computational predictions of the tensile properties of electrospun fibre meshes: effect of fibre diameter and fibre orientation. 2008 , 1, 326-35		112
1428	Enhancement of neurite outgrowth using nano-structured scaffolds coupled with laminin. <i>Biomaterials</i> , 2008 , 29, 3574-82	15.6	416
1427	Electrospraying route to nanotechnology: An overview. 2008 , 66, 197-219		676
1426	The design of electrospun PLLA nanofiber scaffolds compatible with serum-free growth of primary motor and sensory neurons. 2008 , 4, 863-75		128
1425	Rapid fabrication and formation mechanism of cyclotriphosphazene-containing polymer nanofibers. 2008 , 44, 3466-3472		20
1424	In vitro evaluation of electrospun silk fibroin scaffolds for vascular cell growth. <i>Biomaterials</i> , 2008 , 29, 2217-27	15.6	265
1423	Aligned fibrillar collagen matrices obtained by shear flow deposition. <i>Biomaterials</i> , 2008 , 29, 3888-95	15.6	92
1422	Control of neural stem cell differentiation on honeycomb films. 2008 , 313-314, 536-540		45
1421	Stem cells and biomimetic materials strategies for tissue engineering. 2008 , 28, 1189-1202		111
1420	Electrospun nanofibrous polymeric scaffold with targeted drug release profiles for potential application as wound dressing. 2008 , 364, 87-93		249
1419	Zeta-potential and morphology of electrospun nano- and microfibers from biopolymers and their blends used as scaffolds in tissue engineering. 2008 , 18, 38-41		16
1418	Biomimetic material systems for neural progenitor cell-based therapy. 2008 , 13, 806-21		86
1417	Electrospun nanofiber scaffolds: engineering soft tissues. 2008 , 3, 034002		451
1416	Controlled differentiation of stem cells. 2008 , 60, 199-214		261
1415	Biomimetic materials for tissue engineering. 2008 , 60, 184-98		1037
1414	Nanotechnology in regenerative medicine: the materials side. 2008 , 26, 39-47		244
1413	Nanostructured scaffolds for neural applications. 2008 , 3, 183-99		128
1412	Characterization of electrospun core/shell poly(vinyl pyrrolidone)/poly(L-lactide-co-epsilon-caprolactone) fibrous membranes and their cytocompatibility in vitro. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 245-58	3.5	28

1411	Degradation of electrospun nanofiber scaffold by short wave length ultraviolet radiation treatment and its potential applications in tissue engineering. 2008 , 14, 1321-9			86
1410	Advancing tissue engineering by using electrospun nanofibers. 2008 , 3, 547-74			55
1409	Formation of Highly Aligned Grooves on Inner Surface of Semipermeable Hollow Fiber Membrane for Directional Axonal Outgrowth. 2008 , 130,			15
1408	Bioengineering in Cell and Tissue Research. 2008 ,			5
1407	New opportunities: the use of nanotechnologies to manipulate and track stem cells. 2008 , 3, 136-46			239
1406	Electrospinning as a new technique to control the crystal morphology and molecular orientation of polyoxymethylene nanofibers. 2008 , 130, 15460-6			177
1405	Nanostructured Diclofenac Sodium Releasing Material. 2008 ,			1
1404	Electrospun fibers of acid-labile biodegradable polymers containing ortho ester groups for controlled release of paracetamol. 2008 , 70, 445-52			53
1403	Measuring fiber alignment in electrospun scaffolds: a user's guide to the 2D fast Fourier transform approach. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 603-21	3.5	202	
1402	Electrospun water-soluble carboxyethyl chitosan/poly(vinyl alcohol) nanofibrous membrane as potential wound dressing for skin regeneration. 2008 , 9, 349-54			389
1401	Characterization of neural stem cells on electrospun poly(epsilon-caprolactone) submicron scaffolds: evaluating their potential in neural tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 623-34	3.5	94	
1400	New Multicomponent Bioerodible Electrospun Nanofibers for Dual-controlled Drug Release. 2008 , 23, 423-443			36
1399	Engineering biomaterials for synthetic neural stem cell microenvironments. 2008 , 108, 1787-96			87
1398	Nanofibers made of globular proteins. 2008 , 9, 2749-54			99
1397	Aligned Mats from Electrospun Single Fibers. 2008 , 41, 5345-5349			105
1396	Electrospun Polyoxymethylene: Spinning Conditions and Its Consequent Nanoporous Nanofiber. 2008 , 41, 4746-4752			63
1395	Tissue-engineered platforms of axon guidance. 2008 , 14, 33-51			81
1394	Manufacture of degradable polymeric scaffolds for bone regeneration. 2008 , 3, 022001			52

1393	Electrospinning of natural proteins for tissue engineering scaffolding. 2008 , 446-482		1
1392	Electrospinning: processing technique for tissue engineering scaffolding. 2008 , 53, 257-274		125
1391	Electrospun biodegradable nanofibrous mats for tissue engineering. 2008 , 3, 45-60		48
1390	Poly(lactic acid) scaffold fabricated by gelatin particle leaching has good biocompatibility for chondrogenesis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 207-21	3.5	31
1389	Applications of Nanotechnology. 2008 , 554-561		4
1388	Electrohydrodynamic atomization: a versatile process for preparing materials for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2008 , 19, 573-601	3.5	74
1387	Enzyme-Nanofiber Composites for Biocatalysis Applications. 2008 , 254-262		2
1386	References. 329-387		
1385	Nanofiber-based Scaffolds for Tissue Engineering. 2008 ,		
1384	Nanotechnology for nanomedicine and delivery of drugs. 2008 , 14, 2184-200		78
1383	. 2008 ,		175
1382	Neural interactions with materials. 2009 , 14, 769-95		28
1381	The thickness of electrospun poly (epsilon-caprolactone) nanofibrous scaffolds influences cell proliferation. 2009 , 32, 150-8		33
1380	Chondrogenic differentiation of human mesenchymal stem cells on oriented nanofibrous scaffolds: engineering the superficial zone of articular cartilage. 2009 , 15, 913-21		186
1379	Vascular regeneration: engineering the stem cell microenvironment. 2009 , 4, 435-47		17
1378	Biocompatible three-dimensional scaffolds for tendon tissue engineering using electrospinning. 2009 , 3-27		5
1377	New directions in nanofibrous scaffolds for soft tissue engineering and regeneration. 2009 , 6, 515-32		90
1376	Early adhesive behavior of bone-marrow-derived mesenchymal stem cells on collagen electrospun fibers. 2009 , 4, 035006		37

1375	Engineering on the straight and narrow: the mechanics of nanofibrous assemblies for fiber-reinforced tissue regeneration. 2009 , 15, 171-93		166
1374	Fabrication of the microgrooved/microporous polylactide substrates as peripheral nerve conduits and in vivo evaluation. 2009 , 15, 1381-90		46
1373	Electrospun nanofiber meshes with tailored architectures and patterns as potential tissue-engineering scaffolds. <i>Biofabrication</i> , 2009 , 1, 015001	10.5	62
1372	Current tissue engineering and novel therapeutic approaches to axonal regeneration following spinal cord injury using polymer scaffolds. 2009 , 169, 183-99		137
1371	Synthesis and characterization of novel magnetic Fe ₃ O ₄ /polyphosphazene nanofibers. 2009 , 11, 1861-1865		17
1370	Synthesis of CuAlO ₂ nanofibrous mats by electrospinning. <i>Materials Chemistry and Physics</i> , 2009 , 116, 615-618	4.4	18
1369	Preparation of chitosan/PLA blend micro/nanofibers by electrospinning. 2009 , 63, 658-660		130
1368	Nanomaterials for Neural Interfaces. 2009 , 21, 3970-4004		422
1367	Structurally Controlled Bio-hybrid Materials Based on Unidirectional Association of Anisotropic Microparticles with Human Endothelial Cells. 2009 , 21, 4920-4925		96
1366	Enhancement of nanofibrous scaffold of multiwalled carbon nanotubes/polyurethane composite to the fibroblasts growth and biosynthesis. 2009 , 88, 105-16		59
1365	Surface immobilization of poly(ethyleneimine) and plasmid DNA on electrospun poly(L-lactic acid) fibrous mats using a layer-by-layer approach for gene delivery. 2009 , 88, 281-7		34
1364	Fabrication of burst pressure competent vascular grafts via electrospinning: effects of microstructure. 2009 , 88, 923-34		65
1363	Effects of fiber orientation and diameter on the behavior of human dermal fibroblasts on electrospun PMMA scaffolds. 2009 , 90, 1092-106		87
1362	Effects of Schwann cell alignment along the oriented electrospun chitosan nanofibers on nerve regeneration. 2009 , 91, 994-1005		123
1361	Enhanced polarization of embryonic hippocampal neurons on micron scale electrospun fibers. 2010 , 92, 1398-406		21
1360	Study of the electrospun PLA/silk fibroin-gelatin composite nanofibrous scaffold for tissue engineering. 2010 , 93, 158-63		39
1359	The performance of dental pulp stem cells on nanofibrous PCL/gelatin/nHA scaffolds. 2010 , 93, 247-57		76
1358	Electrospinning of collagen nanofiber scaffolds from benign solvents. 2009 , 30, 539-42		173

1357	Electrospun polylactide/silk fibroin/gelatin composite tubular scaffolds for small-diameter tissue engineering blood vessels. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 2675-2682	2.9	51
1356	Tensile testing of individual ultrathin electrospun poly(L-lactic acid) fibers. <i>Journal of Applied Polymer Science</i> , 2009 , 114, 3774-3779	2.9	12
1355	A novel electrospinning target to improve the yield of uniaxially aligned fibers. 2009 , 25, 1169-75		22
1354	Aligned PLGA/HA nanofibrous nanocomposite scaffolds for bone tissue engineering. 2009 , 5, 305-15		309
1353	The engineering of patient-specific, anatomically shaped, digits. <i>Biomaterials</i> , 2009 , 30, 2735-40	15.6	44
1352	Optimization strategies for electrospun silk fibroin tissue engineering scaffolds. <i>Biomaterials</i> , 2009 , 30, 3058-67	15.6	172
1351	Polypyrrole-coated electrospun PLGA nanofibers for neural tissue applications. <i>Biomaterials</i> , 2009 , 30, 4325-35	15.6	586
1350	Advances in progenitor cell therapy using scaffolding constructs for central nervous system injury. 2009 , 5, 283-300		43
1349	Hierarchical starch-based fibrous scaffold for bone tissue engineering applications. 2009 , 3, 37-42		170
1348	Nanofibrous composites for tissue engineering applications. 2009 , 1, 369-90		67
1347	Biodegradable nanofibrous membrane of zein/silk fibroin by electrospinning. 2009 , 58, 396-402		46
1346	Development of biomaterial scaffold for nerve tissue engineering: Biomaterial mediated neural regeneration. 2009 , 16, 108		383
1345	Effect of electrospinning parameters on the nanofiber diameter and length. 2009 , 29, 663-668		423
1344	Fabrication of Nanofiber Reinforced Protein Structures For Tissue Engineering. 2009 , 29, 2448-2453		34
1343	The influence of fiber diameter of electrospun substrates on neural stem cell differentiation and proliferation. <i>Biomaterials</i> , 2009 , 30, 556-64	15.6	603
1342	Embedding methods for poly(L-lactic acid) microfiber mesh/human mesenchymal stem cell constructs. 2009 , 40, 605-11		4
1341	Fabrication and characterization of aligned nanofibrous PLGA/Collagen blends as bone tissue scaffolds. 2009 , 50, 3778-3785		149
1340	The differentiation of embryonic stem cells seeded on electrospun nanofibers into neural lineages. <i>Biomaterials</i> , 2009 , 30, 354-62	15.6	378

1339	Thin-film enhanced nerve guidance channels for peripheral nerve repair. <i>Biomaterials</i> , 2009 , 30, 3834-46	15.6	114
1338	Neurite infiltration and cellular response to electrospun polycaprolactone scaffolds implanted into the brain. <i>Biomaterials</i> , 2009 , 30, 4573-80	15.6	127
1337	Genetically engineered nanofiber-like viruses for tissue regenerating materials. 2009 , 9, 846-52		159
1336	Electrospun silk biomaterial scaffolds for regenerative medicine. 2009 , 61, 988-1006		335
1335	The application of nanofibrous scaffolds in neural tissue engineering. 2009 , 61, 1055-64		274
1334	Electrospun scaffolds for stem cell engineering. 2009 , 61, 1084-96		254
1333	Microstructured materials based on multicompartmental fibers. 2009 , 131, 6650-1		75
1332	Creation of highly aligned electrospun poly-L-lactic acid fibers for nerve regeneration applications. 2009 , 6, 016001		227
1331	Composite electrospun scaffolds for engineering tubular bone grafts. 2009 , 15, 3779-88		70
1330	Electrical stimulation of nerve cells using conductive nanofibrous scaffolds for nerve tissue engineering. 2009 , 15, 3605-19		239
1329	Three-dimensional gastric cancer cell culture using nanofiber scaffold for chemosensitivity test. 2009 , 45, 65-71		54
1328	The role of biodegradable engineered scaffolds seeded with Schwann cells for spinal cord regeneration. 2009 , 54, 73-83		101
1327	Electrospinning thermoplastic polyurethane-contained collagen nanofibers for tissue-engineering applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2009 , 20, 1513-36	3.5	36
1326	Microenvironmental Determinants of Stem Cell Fate. 2009 , 647-663		
1325	Nanofiber enabled layer-by-layer approach toward three-dimensional tissue formation. 2009 , 15, 945-56		129
1324	Effects of nanotopography on stem cell phenotypes. <i>World Journal of Stem Cells</i> , 2009 , 1, 55-66	5.6	72
1323	Controlled vacuum seeding as a means of generating uniform cellular distribution in electrospun polycaprolactone (PCL) scaffolds. 2009 , 131, 074521		18
1322	Degradation behaviors of electrospun resorbable polyester nanofibers. 2009 , 15, 333-51		125

1321	Review paper: a review of the cellular response on electrospun nanofibers for tissue engineering. 2009 , 24, 7-29	242
1320	In vitro differentiation of human cord blood-derived unrestricted somatic stem cells into hepatocyte-like cells on poly(epsilon-caprolactone) nanofiber scaffolds. 2009 , 190, 135-49	71
1319	Glioma Invasion: Mechanisms and Therapeutic Challenges. 2009 , 1219-1252	13
1318	Electrospun polyurethane scaffolds for proliferation and neuronal differentiation of human embryonic stem cells. 2009 , 4, 045004	90
1317	Neurite outgrowth on nanofiber scaffolds with different orders, structures, and surface properties. 2009 , 3, 1151-9	211
1316	Effect of fiber diameter and alignment of electrospun polyurethane meshes on mesenchymal progenitor cells. 2009 , 15, 2435-45	167
1315	Chapter 28: Future perspective in peripheral nerve reconstruction. 2009 , 87, 507-30	33
1314	Nanotechnology and urological tissue engineering. 2009 , 281-298	
1313	Magnetically induced protein gradients on electrospun nanofibers. 2009 , 12, 656-63	14
1312	Production of Uniaxially Aligned Nanofibers Using a Modified Electrospinning Method: Rotating Jet. 2009 , 5, 318-323	20
1311	Chitosan channels containing spinal cord-derived stem/progenitor cells for repair of subacute spinal cord injury in the rat. 2010 , 67, 1733-44	51
1310	Atomic Force Microscope Lithography on Biomimetic Surfaces. 2010 , 15-46	1
1309	BIOMIMETIC MATERIALS FOR ENGINEERING OF NEURAL TISSUES: CONTROL OF CELL ADHESION AND GUIDING NEURAL CELL OUTGROWTH WITH PEPTIDE-CONJUGATED POLYMER STRUCTURES. 2010 , 347-372	
1308	Controlled release of Berberine Chloride by electrospun core/shell PVP/PLCL fibrous membranes. 2010 , 37, 338	6
1307	Electrospinning: a fascinating fiber fabrication technique. 2010 , 28, 325-47	3136
1306	Laser-based direct-write techniques for cell printing. <i>Biofabrication</i> , 2010 , 2, 032001	10.5 223
1305	The potential of nanofibers and nanobiocides in water purification. 2010 , 36, 68-81	130
1304	Technology development for the production of biobased products from biorefinery carbohydratesThe US Department of Energy's Top 10 revisited. 2010 , 12, 539	3010

1303	Electrospinning of polyacrylonitrile fibers from ionic liquid solution. 2010 , 98, 517-523	23
1302	Synergistic effects of electrospun PLLA fiber dimension and pattern on neonatal mouse cerebellum C17.2 stem cells. 2010 , 6, 2960-9	129
1301	Stress response of fibroblasts adherent to the surface of plasma-treated poly(lactic-co-glycolic acid) nanofiber matrices. 2010 , 77, 90-5	29
1300	Electrospun nanofibrous blend membranes for fuel cell electrolytes. 2010 , 195, 5957-5961	41
1299	Electrospinning of ultrafine core/shell fibers for biomedical applications. 2010 , 53, 1246-1254	52
1298	Effects of chitosan/collagen substrates on the behavior of rat neural stem cells. 2010 , 53, 215-22	19
1297	Melt synthesis and characterization of poly(L-lactic acid) chain linked by multifunctional epoxy compound. 2010 , 25, 774-779	21
1296	Fiber scaffolds of polysialic acid via electrospinning for peripheral nerve regeneration. 2010 , 21, 2115-24	15
1295	Electrospinning of small diameter 3-D nanofibrous tubular scaffolds with controllable nanofiber orientations for vascular grafts. 2010 , 21, 3207-15	125
1294	Guidance of neurite outgrowth on aligned electrospun polypyrrole/poly(styrene-beta-isobutylene-beta-styrene) fiber platforms. 2010 , 94, 1004-11	30
1293	A comprehensive review of surface modification for neural cell adhesion and patterning. 2010 , 93, 1209-24	50
1292	Aligned poly(L-lactic-co-e-caprolactone) electrospun microfibers and knitted structure: a novel composite scaffold for ligament tissue engineering. 2010 , 94, 1270-82	36
1291	Electrospun scaffold topography affects endothelial cell proliferation, metabolic activity, and morphology. 2010 , 94, 1195-204	29
1290	Electrospun nanofibrous matrix improves the regeneration of dense cortical bone. 2010 , 95, 49-57	33
1289	In vitro hydrolytic and enzymatic degradation of nestlike-patterned electrospun poly(D,L-lactide-co-glycolide) scaffolds. 2010 , 95, 755-65	35
1288	Characterization of micropatterned nanofibrous scaffolds for neural network activity readout for high-throughput screening. 2010 , 94, 238-49	5
1287	Accelerated neuritogenesis and maturation of primary spinal motor neurons in response to nanofibers. 2010 , 70, 589-603	62
1286	Processing Technologies for 3D Nanostructured Tissue Engineering Scaffolds. 2010 , 12, B467-B487	33

1285	Controlling stem cell fate with material design. 2010 , 22, 175-89		201
1284	Crystallization and enzymatic hydrolysis of PLA grade for orthopedics. 2010 , 29, 280-299		12
1283	Neurite Outgrowth on Nanocomposite Scaffolds Synthesized from PLGA and Carboxylated Carbon Nanotubes. 2010 , 11, B261-B266		16
1282	Fibrous Composites With Anisotropic Distribution of Mechanical Properties After Layer-by-Layer Deposition of Aligned Electrospun Fibers. 2010 , 12, B529-B538		12
1281	Exploring cellular adhesion and differentiation in a micro-/nano-hybrid polymer scaffold. 2010 , 26, 838-46		45
1280	A design of experiments (DoE) approach to material properties optimization of electrospun nanofibers. <i>Journal of Applied Polymer Science</i> , 2010 , 117, 2251-2257	2.9	30
1279	In situ Localization of Molecules in Crosslinked Particles during Electrohydrodynamic Process: Simple Route to Produce Microcapsules and Fibers with Controlled Release. 2010 , 31, 1713-8		7
1278	Regeneration and repair of peripheral nerves with different biomaterials: review. 2010 , 30, 574-88		136
1277	Aligned bioactive multi-component nanofibrous nanocomposite scaffolds for bone tissue engineering. 2010 , 10, 433-44		73
1276	Fabrication of bioactive composite scaffolds by electrospinning for bone regeneration. 2010 , 10, 1365-73		44
1275	Polymer nanofibrous structures: Fabrication, biofunctionalization, and cell interactions. 2010 , 35, 868-892		365
1274	Polyvinyl alcohol/hydroxyapatite biocomposite nanofibrous scaffold: Mimicking the key features of natural bone at the nanoscale level. 2010 , 51, 868-876		186
1273	Recombinant human serum albumin hydrogel as a novel drug delivery vehicle. 2010 , 30, 664-669		35
1272	Direct differentiation of human embryonic stem cells into selective neurons on nanoscale ridge/groove pattern arrays. <i>Biomaterials</i> , 2010 , 31, 4360-6	15.6	284
1271	Effect of electron beam irradiation on the structure and properties of electrospun PLLA and PLLA/PDLA blend nanofibers. 2010 , 6, 123-9		35
1270	Biospinning by silkworms: silk fiber matrices for tissue engineering applications. 2010 , 6, 360-71		62
1269	Incorporation of biodegradable electrospun fibers into calcium phosphate cement for bone regeneration. 2010 , 6, 1238-47		106
1268	Multiscale three-dimensional scaffolds for soft tissue engineering via multimodal electrospinning. 2010 , 6, 1227-37		168

1267	Electrospun microfiber meshes of silicon-doped vaterite/poly(lactic acid) hybrid for guided bone regeneration. 2010 , 6, 1248-57	78
1266	Varying the diameter of aligned electrospun fibers alters neurite outgrowth and Schwann cell migration. 2010 , 6, 2970-8	215
1265	Nerve growth factor (NGF)-conjugated electrospun nanostructures with topographical cues for neuronal differentiation of mesenchymal stem cells. 2010 , 6, 4725-33	121
1264	Trophically and topographically functionalized silk fibroin nerve conduits for guided peripheral nerve regeneration. <i>Biomaterials</i> , 2010 , 31, 2323-34	15.6 161
1263	The regulation of tendon stem cell differentiation by the alignment of nanofibers. <i>Biomaterials</i> , 2010 , 31, 2163-75	15.6 448
1262	The effect of fiber alignment and heparin coating on cell infiltration into nanofibrous PLLA scaffolds. <i>Biomaterials</i> , 2010 , 31, 3536-42	15.6 134
1261	The ability of corneal epithelial cells to recognize high aspect ratio nanostructures. <i>Biomaterials</i> , 2010 , 31, 4064-72	15.6 54
1260	Electrically active nanomaterials as improved neural tissue regeneration scaffolds. 2010 , 2, 635-47	49
1259	Nanoscale surfacing for regenerative medicine. 2010 , 2, 478-95	56
1258	Fabrication of well-aligned electrospun nanofibrous membrane based on fluorinated polyimide. 2010 , 21, 861-866	27
1257	Preparation of ultrafine uniform electrospun polyimide nanofiber. 2010 , 42, 514-518	40
1256	Neurogenic differentiation of human conjunctiva mesenchymal stem cells on a nanofibrous scaffold. 2010 , 54, 1295-300	25
1255	Membrane Approaches for Liver and Neuronal Tissue Engineering. 2010 , 229-252	1
1254	Comparative Study of Different Techniques for the Sterilization of Poly-L-lactide Electrospun Microfibers: Effectiveness vs. Material Degradation. 2010 , 33, 76-85	32
1253	The influence of fibrous elastomer structure and porosity on matrix organization. 2010 , 5, e15717	24
1252	Scaffolds for the Engineering of Functional Bladder Tissues. 2010 ,	1
1251	Effect of Polymer Molecular Weight on the Electrospinning of Polylactides in Entangled and Aligned Fiber Forms. 2010 , 66, 35-42	8
1250	Biodegradable textile yarns. 2010 , 534-567	

1249	Cell and biomolecule delivery for regenerative medicine. 2010 , 11, 014102	12
1248	Implantation of functionalized thermally gelling xyloglucan hydrogel within the brain: associated neurite infiltration and inflammatory response. 2010 , 16, 2833-42	42
1247	Electrospun Silk Fibroin Nanofiber Tubes for Peripheral Nerve Regeneration. 2010 ,	1
1246	Solvent Influences the Morphology and Mechanical Properties of Electrospun Poly(L-lactic acid) Scaffold for Tissue Engineering Applications. 2010 , 294, 153-161	23
1245	In silico assembly and nanomechanical characterization of carbon nanotube buckypaper. 2010 , 21, 265706	77
1244	Scaffold Characteristics for Functional Hollow Organ Regeneration. 2010 , 3, 241-263	10
1243	Nanostructured biocomposites for tissue engineering scaffolds. 2010 , 509-546	1
1242	Hybrid Systems Biomolecule-Polymeric Nanoparticle: Synthesis, Properties and Biotechnological Applications. 2010 , 219-259	2
1241	Directed growth of adult human white matter stem cell-derived neurons on aligned fibrillar collagen. 2010 , 16, 1103-13	42
1240	Electrospun Biocomposite Polycaprolactone/Collagen Tubes as Scaffolds for Neural Stem Cell Differentiation. 2010 , 3, 3714-3728	35
1239	Paraffin embedding allows effective analysis of proliferation, survival, and immunophenotyping of cells cultured on poly(L-lactic acid) electrospun nanofiber scaffolds. 2010 , 16, 751-60	6
1238	Combining electrospinning and fused deposition modeling for the fabrication of a hybrid vascular graft. <i>Biofabrication</i> , 2010 , 2, 014102	10.5 114
1237	Microfibrous β -TCP/collagen scaffolds mimic woven bone in structure and composition. 2010 , 5, 065005	14
1236	The Integrated Role of Biomaterials and Stem Cells in Vascular Regeneration. 2010 , 195-223	3
1235	Synthetic Niches for Stem Cell Differentiation into T cells. 2010 , 225-245	1
1234	Functional Biomaterials for Controlling Stem Cell Differentiation. 2010 , 19-44	12
1233	The Nanofiber Matrix as an Artificial Stem Cell Niche. 2010 , 89-118	2
1232	Influence of gelatin cues in PCL electrospun membranes on nerve outgrowth. 2010 , 11, 2238-46	111

1231	Controlling the porosity and microarchitecture of hydrogels for tissue engineering. 2010 , 16, 371-83	737
1230	Designing Nanofibrous Scaffolds for Tissue Engineering. 2010 , 435-497	4
1229	Surface-modified nanofibrous biomaterial bridge for the enhancement and control of neurite outgrowth. 2010 , 5, 149-58	39
1228	Synthesis and Characterization of Biodegradable Poly(ϵ -caprolactone)-b-Poly(L-lactide) and Study on Their Electrospun Scaffolds. 2010 , 47, 1116-1122	9
1227	Calcium phosphate coated electrospun fiber matrices as scaffolds for bone tissue engineering. 2010 , 26, 7380-7	87
1226	Self-crimping, biodegradable, electrospun polymer microfibers. 2010 , 11, 3624-9	49
1225	Tissue engineered, guided nerve tube consisting of aligned neural stem cells and astrocytes. 2010 , 11, 3584-91	34
1224	Selective nanofiber deposition using a microfluidic confinement approach. 2010 , 26, 1539-43	17
1223	In vivo study of novel nanofibrous intra-luminal guidance channels to promote nerve regeneration. 2010 , 7, 046003	91
1222	Preparation of fish gelatin and fish gelatin/poly(L-lactide) nanofibers by electrospinning. 2010 , 47, 380-8	51
1221	Electrospun nanofibers for neural tissue engineering. 2010 , 2, 35-44	281
1220	Biomaterial design strategies for the treatment of spinal cord injuries. 2010 , 27, 1-19	275
1219	Presentation counts: microenvironmental regulation of stem cells by biophysical and material cues. 2010 , 26, 533-56	131
1218	Genetically engineered liquid-crystalline viral films for directing neural cell growth. 2010 , 26, 9885-90	52
1217	Processing of PLA. 2010 , 142-207	3
1216	A novel route for the production of chitosan/poly(lactide-co-glycolide) graft copolymers for electrospinning. 2010 , 5, 065016	11
1215	Advances in Macromolecules. 2010 ,	6
1214	Nanotechnology for treatment of stroke and spinal cord injury. 2010 , 5, 99-108	64

1213	Topography, cell response, and nerve regeneration. 2010 , 12, 203-31	383
1212	Biomaterials as Stem Cell Niche. 2010 ,	1
1211	Fabrication and mechanical characterization of 3D electrospun scaffolds for tissue engineering. 2010 , 5, 055006	40
1210	Processing of Poly(Lactic Acid). 2010 , 189-215	11
1209	Three-dimensional nanofibrous scaffolds incorporating immobilized BDNF promote proliferation and differentiation of cortical neural stem cells. 2010 , 19, 843-52	145
1208	Nanostructured Nb2O5 Polymorphs by Electrospinning for Rechargeable Lithium Batteries. 2010 , 114, 664-671	294
1207	Preparation, Characterization and Cell Attachment Studies of Electrospun Multi-scale Poly(caprolactone) Fibrous Scaffolds for Tissue Engineering. 2010 , 48, 21-30	23
1206	Fabrication of engineered M13 bacteriophages into liquid crystalline films and fibers for directional growth and encapsulation of fibroblasts. 2010 , 6, 4454	38
1205	Bioactive materials and nanotechnology. 2011 , 50-69	
1204	Introduction to electrospinning. 2011 , 3-33	11
1203	Engineering bi-layer nanofibrous conduits for peripheral nerve regeneration. 2011 , 17, 705-15	68
1202	Culture of central nervous system neurons on electrospun polymer fiber-covered surfaces. 2011 ,	
1201	Materials for central nervous system regeneration: bioactive cues. 2011 , 21, 7033	36
1200	Nanomaterials for Cardiac Tissue Engineering Application. 2011 , 3, 270-277	13
1199	Functionalization of electrospun poly(ϵ -caprolactone) fibers with the extracellular matrix-derived peptide GRGDS improves guidance of schwann cell migration and axonal growth. 2011 , 17, 475-86	41
1198	Electrospinning of Biocompatible Polymers and Their Potentials in Biomedical Applications. 2011 , 213-239	47
1197	Design, fabrication and characterization of PCL electrospun scaffolds—review. 2011 , 21, 9419	424
1196	Preparation and Characterization of Spidroin and PLLA Blended Nanofiber Mats. 2011 , 175-176, 127-131	1

1195	3D nanofibrous scaffolds for tissue engineering. 2011 , 21, 10243	94
1194	Introduction. 2011 , 1-30	
1193	Natural and Synthetic Scaffolds. 2011 , 41-67	13
1192	Electrospun Nanocomposites and Stem Cells in Cardiac Tissue Engineering. 2011 , 215-242	6
1191	Tissue Engineering of Organs: Brain Tissues. 2011 , 457-492	1
1190	Tissue Engineering. 2011 , 175-211	3
1189	Multifunctional Polymer Based Structures for Human Tissues Reconstruction. 2011 , 91-112	1
1188	Surfaces and Cell Behavior. 2011 , 115-126	
1187	Nanoscale tissue engineering: spatial control over cell-materials interactions. 2011 , 22, 212001	87
1186	A facile and sensitive fluorescent sensor using electrospun nanofibrous film for nitroaromatic explosive detection. 2011 , 21, 11895	71
1185	Highly Aligned Polymer Nanofiber Structures: Fabrication and Applications in Tissue Engineering. 2011 , 171-212	26
1184	Electrospun nanofibrillar surfaces promote neuronal differentiation and function from human embryonic stem cells. 2011 , 17, 3021-31	40
1183	Stem Cells & Regenerative Medicine. 2011 ,	5
1182	Effective combination of aligned nanocomposite nanofibers and human unrestricted somatic stem cells for bone tissue engineering. 2011 , 32, 626-36	45
1181	Electrospun Fibers as Substrates for Peripheral Nerve Regeneration. 2011 , 131-170	7
1180	Composite Materials. 2011 ,	24
1179	Myocardial Tissue Engineering. 2011 ,	2
1178	Cross-linked poly(trimethylene carbonate-co-L-lactide) as a biodegradable, elastomeric scaffold for vascular engineering applications. 2011 , 12, 3856-69	57

1177	Effect of electrospun fiber diameter and alignment on macrophage activation and secretion of proinflammatory cytokines and chemokines. 2011 , 12, 1900-11	202
1176	Micro- and Nanotechnology in Tissue Engineering. 2011 , 3-29	6
1175	Preparation, characterization and biocompatibility of electrospinning heparin-modified silk fibroin nanofibers. 2011 , 48, 345-53	74
1174	Construction of tissue engineered nerve grafts and their application in peripheral nerve regeneration. 2011 , 93, 204-30	421
1173	Nanomaterials for regenerative medicine. 2011 , 6, 157-81	55
1172	Biomimetic self-templating supramolecular structures. 2011 , 478, 364-8	323
1171	Cell-Biomaterial Interactions Reproducing a Niche. 2011 ,	1
1170	Functional Applications of Electrospun Nanofibers. 2011 ,	21
1169	Bioartificial Stem Cell Niches: Engineering a Regenerative Microenvironment. 2011 , 245-256	1
1168	Spray deposition of live cells throughout the electrospinning process produces nanofibrous three-dimensional tissue scaffolds. 2011 , 6, 1095-9	13
1167	Nanopatterned Surfaces for Biomedical Applications. 2011 ,	4
1166	Polymeric Scaffolds in Tissue Engineering Application: A Review. 2011 , 2011, 1-19	1017
1165	Preparation of PVP/PLLA Ultrafine Blend Fibers by Electrospinning. 2011 , 3,	3
1164	Differentiation of embryonic stem cells into neural cells on 3D poly (D, L-lactic acid) scaffolds versus 2D cultures. 2011 , 34, 1012-23	19
1163	A support for prospective nanomaterials. 2011 , 22, 010201	
1162	Preparation and characterization of Co/PAN-based carbon fibrous composites. 2011 , 55, 10404	1
1161	Modifying biomaterial surfaces for the repair and regeneration of nerve cells. 2011 , 325-343	1
1160	Ion-beam irradiation into biodegradable nanofibers for tissue engineering scaffolds. 2011 , 206, 889-892	4

1159	A comparative study of jet formation and nanofiber alignment in electrospinning and electrocentrifugal spinning systems. 2011 , 69, 540-546		49
1158	The promotion of neural progenitor cells proliferation by aligned and randomly oriented collagen nanofibers through α integrin/MAPK signaling pathway. <i>Biomaterials</i> , 2011 , 32, 6737-44	15.6	68
1157	The knee meniscus: structure-function, pathophysiology, current repair techniques, and prospects for regeneration. <i>Biomaterials</i> , 2011 , 32, 7411-31	15.6	597
1156	Electrospinning fundamentals: optimizing solution and apparatus parameters. 2011 ,		33
1155	Polymeric nanofibers in tissue engineering. 2011 , 17, 349-64		236
1154	Fabrication and cell affinity of biomimetic structured PLGA/articular cartilage ECM composite scaffold. 2011 , 22, 693-704		56
1153	Nano-fibrous tissue engineering scaffolds capable of growth factor delivery. 2011 , 28, 1273-81		51
1152	Osteogenic differentiation of marrow stromal cells on random and aligned electrospun poly(L-lactide) nanofibers. 2011 , 39, 14-25		77
1151	MAPLE activities and applications in gas sensors. 2011 , 105, 643-649		5
1150	Electroconductive polymeric nanowire templates facilitates in vitro C17.2 neural stem cell line adhesion, proliferation and differentiation. 2011 , 7, 2892-901		49
1149	Preparation and mineralization of three-dimensional carbon nanofibers from bacterial cellulose as potential scaffolds for bone tissue engineering. 2011 , 205, 2938-2946		50
1148	Patient-to-patient variability in autologous pericardial matrix scaffolds for cardiac repair. 2011 , 4, 545-56		33
1147	Electrospun PLGA-silk fibroin-collagen nanofibrous scaffolds for nerve tissue engineering. 2011 , 47, 234-40		71
1146	Biomedical applications of nanofibers. 2011 , 22, 350-365		157
1145	Effect of wheel rotating speed and LiCl additives on electrospun aligned polyacrylonitrile nanofiber. <i>Polymer Engineering and Science</i> , 2011 , 51, 2178-2183	2.3	7
1144	Micro-/nano-engineered cellular responses for soft tissue engineering and biomedical applications. 2011 , 7, 1361-78		107
1143	Characterization of electrospun poly(L-lactide) and gold nanoparticle composite scaffolds for skeletal muscle tissue engineering. 2011 , 5, 560-8		86
1142	Application of conductive polymers, scaffolds and electrical stimulation for nerve tissue engineering. 2011 , 5, e17-35		472

1141	Continuous production of functionalized polymer particles employing the phase separation in polymer blend films. 2011 , 32, 1247-52		6
1140	Nanobiomaterials: State of the Art and Future Trends. 2011 , 13, B197-B217		47
1139	Scaffold-based approach to direct stem cell neural and cardiovascular differentiation: an analysis of physical and biochemical effects. 2011 , 97, 355-74		27
1138	Dual-functional electrospun poly(2-hydroxyethyl methacrylate). 2011 , 99, 455-66		18
1137	Guided orientation of cardiomyocytes on electrospun aligned nanofibers for cardiac tissue engineering. 2011 , 98, 379-86		209
1136	An investigation into the influence of electrospinning parameters on the diameter and alignment of poly(hydroxybutyrate-co-hydroxyvalerate) fibers. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 1694-1706	2.9	42
1135	Electrospun poly(L-lactide)/poly(ε-caprolactone) blend fibers and their cellular response to adipose-derived stem cells. <i>Journal of Applied Polymer Science</i> , 2011 , 120, 2154-2165	2.9	21
1134	Study on the effect of inorganic salts on the alignment of electrospun fiber. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 1047-1052	2.9	13
1133	Nano and submicrometric fibers of poly(D,L-lactide) obtained by solution blow spinning: Process and solution variables. <i>Journal of Applied Polymer Science</i> , 2011 , 122, 3396-3405	2.9	104
1132	Paclitaxel loaded electrospun porous nanofibers as mat potential application for chemotherapy against prostate cancer. 2011 , 86, 505-512		100
1131	Preparation and characterization of electrospun PLGA/gelatin nanofibers as a potential drug delivery system. 2011 , 84, 97-102		165
1130	Surface modification of electrospun PLLA nanofibers by plasma treatment and cationized gelatin immobilization for cartilage tissue engineering. 2011 , 7, 234-43		276
1129	Gradient biomaterials for soft-to-hard interface tissue engineering. 2011 , 7, 1441-51		295
1128	In vitro cell performance on hydroxyapatite particles/poly(L-lactic acid) nanofibrous scaffolds with an excellent particle along nanofiber orientation. 2011 , 7, 2585-92		110
1127	Endothelial cell scaffolds generated by 3D direct writing of biodegradable polymer microfibers. <i>Biomaterials</i> , 2011 , 32, 1872-9	15.6	26
1126	Membranes of epitaxial-like packed, super aligned electrospun micron hollow poly(l-lactic acid) (PLLA) fibers. 2011 , 47, 882-892		51
1125	Utilizing NaCl to increase the porosity of electrospun materials. 2011 , 31, 30-36		69
1124	Differentiation of human mesenchymal stem cells on nano- and micro-grain size titania. 2011 , 31, 357-362		7

1123	Emerging nanotechnology approaches in tissue engineering for peripheral nerve regeneration. 2011 , 7, 50-9	139
1122	Ionic liquid assisted electrospinning of quantum dots/elastomer composite nanofibers. 2011 , 52, 1954-1962	59
1121	Solution spraying of poly(methyl methacrylate) blends to fabricate microtextured, superoleophobic surfaces. 2011 , 52, 3209-3218	160
1120	Dental regeneration. 2011 , 280-297	1
1119	Regulatory influence of scaffolds on cell behavior: how cells decode biomaterials. 2011 , 12, 151-9	34
1118	Electrospinning jets and nanofibrous structures. 2011 , 5, 13403	268
1117	Bladder tissue regeneration. 2011 , 225-241	4
1116	Central Nervous System Tissue Engineering: Current Considerations and Strategies. 2011 , 3, 1-120	4
1115	Poly (L-lactic acid)/calcium-deficient nanohydroxyapatite electrospun mats for bone marrow stem cell cultures. 2011 , 26, 225-241	47
1114	Carbon nanotubes in neural interfacing applications. 2011 , 8, 011001	81
1113	Applications of Nanotechnology for Regenerative Medicine. 2011 , 529-540	2
1112	Nanotechnology Enabled In situ Sensors for Monitoring Health. 2011 ,	5
1111	Advances and Technical Standards in Neurosurgery. 2011 ,	
1110	Artery vessel fabrication using the combined fused deposition modeling and electrospinning techniques. 2011 , 17, 37-44	27
1109	Electrospun nanofibers for pharmaceutical and medical applications. 2011 , 21, 451-468	31
1108	Dura mater regeneration with a novel synthetic, bilayered nanofibrous dural substitute: an experimental study. 2011 , 6, 325-37	18
1107	Nerve tissue regeneration. 2011 , 168-201	3
1106	Bone tissue regeneration. 2011 , 93-110	3

1105	Nanofiber matrices promote the neuronal differentiation of human embryonic stem cell-derived neural precursors in vitro. 2011 , 17, 855-63		87
1104	Fabrication of Coated-Collagen Electrospun PHBV Nanofiber Film by Plasma Method and Its Cellular Study. 2011 , 2011, 1-8		10
1103	Electrospun Nanofibrous Materials for Neural Tissue Engineering. <i>Polymers</i> , 2011 , 3, 413-426	4.5	110
1102	Release of bacteriocins from nanofibers prepared with combinations of poly(d,l-lactide) (PDLLA) and poly(ethylene oxide) (PEO). <i>International Journal of Molecular Sciences</i> , 2011 , 12, 2158-73	6.3	70
1101	In Vitro Structural Changes of Nano-Bacterial Cellulose Immersed in Phosphate Buffer Solution. 2011 , 10, 55-66		17
1100	Stem Cells and Nanostructures for Advanced Tissue Regeneration. 2011 , 21-62		14
1099	Biodegradable Cell-Seeded Nanofiber Scaffolds for Neural Repair. <i>Polymers</i> , 2011 , 3, 1684-1733	4.5	40
1098	Peripheral Nerve Regeneration. 2011 , 421-434		2
1097	Study on the Morphologies and Formational Mechanism of Poly(hydroxybutyrate-co-hydroxyvalerate) Ultrafine Fibers by Dry-Jet-Wet-Electrospinning. 2012 , 2012, 1-8		5
1096	Preparation and Characterization of Aligned PLLA/PCL/HA Composite Fibrous Membranes. 2012 , 49, 946-951		5
1095	Comparison of acute recoil between bioabsorbable poly-L-lactic acid XINSORB stent and metallic stent in porcine model. 2012 , 2012, 413956		14
1094	Viability of mesenchymal stem cells during electrospinning. 2012 , 45, 125-30		16
1093	In Vitro Drug Release Activity from Core/Shell Electrospun MATS of sPLA-cPEG/GS and sPLA/CA-cPEG/GS. 2012 , 714, 263-270		1
1092	Nanotechnology and tissue-engineered organ regeneration. 2012 , 403-427		
1091	Proliferation of genetically modified human cells on electrospun nanofiber scaffolds. 2012 , 1, e59		22
1090	Protocols for Biomaterial Scaffold Fabrication. 2012 , 1-23		6
1089	Electrospun Aligned Poly(L-lactide)/Poly(?-caprolactone) /Poly(ethylene glycol) Blend Fibrous Membranes. 2012 , 49, 466-472		4
1088	Electrospun Nanofiber and Stem Cells in Tissue Engineering. 2012 , 91-118		2

1087	Preparation and Characterization of Polyacrylonitrile-Based Nanofibers by Electrostatic Spinning. 2012 , 591-593, 1042-1045	1
1086	Effect of PEO on the Hydrophilicity of PLLA Ultrafine Fibers. 2012 , 535-537, 2390-2393	
1085	Postproduction processing of electrospun fibres for tissue engineering. 2012 ,	14
1084	Strategies to Engineer Electrospun Scaffold Architecture and Function. 2012 , 291-308	
1083	Bioactive Surface Modifications for Dental and Orthopedic Implants. 2012 , 148-183	
1082	Magnetic Nanoparticles: A Versatile System for Therapeutics and Imaging. 2012 , 227-248	1
1081	Quantification of protein incorporated into electrospun polycaprolactone tissue engineering scaffolds. 2012 , 4, 2074-81	72
1080	Electrospun composite nanofibers and their multifaceted applications. 2012 , 22, 12953	235
1079	Nanobased Technological Applications for Central Nervous System Injuries. 2012 , 289-315	
1078	Carbon nanostructures as nerve scaffolds for repairing large gaps in severed nerves. 2012 , 38, 6075-6090	29
1077	Fabrication, characterization and in vitro evaluation of aligned PLGA-PCL nanofibers for neural regeneration. 2012 , 40, 2098-110	52
1076	Chemically Modified Micro- and Nanostructured Systems for Pluripotent Stem Cell Culture. 2012 , 2, 287-304	9
1075	Electrospinning as a versatile method for fabricating coreshell, hollow and porous nanofibers. 2012 , 19, 2029-2034	140
1074	Sacrificial nanofibrous composites provide instruction without impediment and enable functional tissue formation. 2012 , 109, 14176-81	132
1073	Charge assisted tailoring of chemical functionality at electrospun nanofiber surfaces. 2012 , 22, 22935	57
1072	Phage-chips for novel optically readable tissue engineering assays. 2012 , 28, 2166-72	39
1071	Structural characterization of electrospun scaffolds by image analysis techniques. 2012 ,	1
1070	Fabrication and material properties of fibrous PHBV scaffolds depending on the cross-ply angle for tissue engineering. 2012 , 27, 457-68	2

1069	Three-dimensional scaffolding to investigate neuronal derivatives of human embryonic stem cells. 2012 , 14, 829-838	56
1068	Biofunctionalisation of polymeric scaffolds for neural tissue engineering. 2012 , 27, 369-90	37
1067	Evaluation of the Morphology and Osteogenic Potential of Titania-Based Electrospun Nanofibers. 2012 , 2012, 1-7	4
1066	Three-dimensional fibrous scaffolds with microstructures and nanotextures for tissue engineering. 2012 , 2, 10110	104
1065	Combining topographical and genetic cues to promote neuronal fate specification in stem cells. 2012 , 13, 3427-38	21
1064	Early stage evolution of structure and nanoscale property of nanofibers in thermally induced phase separation process. 2012 , 72, 765-772	30
1063	Fretting behaviors of hot-pressed electrospun hydroxyapatite/poly(dl-lactide) fibrous composites as potential orthopedic implants. 2012 , 53, 124-133	5
1062	Prediction of the Thermodynamic Properties of Key Products and Intermediates from Biomass. II. 2012 , 116, 20738-20754	10
1061	Structure and surface nanomechanics of poly(l-lactide) from thermally induced phase separation process. <i>Applied Surface Science</i> , 2012 , 258, 6665-6671	6.7 27
1060	Mechanical properties and in vitro degradation of electrospun bio-nanocomposite mats from PLA and cellulose nanocrystals. 2012 , 90, 301-8	162
1059	Polymeric Nanofibers and their Applications in Sensors. 2012 , 801-826	2
1058	Nanofibers-based Biomedical Devices. 2012 , 679-713	
1057	Mechanical Property Enhancement of Polylactide Nanofibers through Optimization of Molecular Weight, Electrospinning Conditions, and Stereocomplexation. 2012 , 45, 5494-5500	76
1056	Nanostructured Electrospun Fibers. 2012 , 187-210	2
1055	Nano-regenerative medicine towards clinical outcome of stem cell and tissue engineering in humans. 2012 , 16, 1991-2000	33
1054	Effective combination of hydrostatic pressure and aligned nanofibrous scaffolds on human bladder smooth muscle cells: implication for bladder tissue engineering. 2012 , 23, 2281-90	16
1053	Electrospun polymer nanofibers: The booming cutting edge technology. 2012 , 72, 915-930	124
1052	Nanofiber-based delivery of bioactive agents and stem cells to bone sites. 2012 , 64, 1129-41	128

1051	Construction and characterization of an electrospun tubular scaffold for small-diameter tissue-engineered vascular grafts: a scaffold membrane approach. 2012 , 13, 140-55		58
1050	The effect of topography on differentiation fates of matrigel-coated mouse embryonic stem cells cultured on PLGA nanofibrous scaffolds. 2012 , 18, 609-20		52
1049	Neural Stem Cell Migration: Role of Directional Cues and Electric Fields. 2012 , 297-303		
1048	Bioinspired Nanomaterials for Tissue Engineering. 2012 ,		
1047	Biocompatibility of electrospun halloysite nanotube-doped poly(lactic-co-glycolic acid) composite nanofibers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2012 , 23, 299-313	3.5	79
1046	Stable jet electrospinning for easy fabrication of aligned ultrafine fibers. 2012 , 22, 19634		41
1045	Hyaluronic acid-based scaffold for central neural tissue engineering. 2012 , 2, 278-91		87
1044	Human Embryonic and Induced Pluripotent Stem Cells. 2012 ,		5
1043	Synthesis and Characterization of Biocompatible Poly(ethylene glycol)-b-Poly(L-lactide) and Study on Their Electrospun Scaffolds. 2012 , 51, 1237-1244		30
1042	Biomedical Applications of Polymeric Nanofibers. 2012 ,		16
1041	Localized delivery of dexamethasone from electrospun fibers reduces the foreign body response. 2012 , 13, 3031-8		104
1040	Superparamagnetic nano-composite scaffolds for promoting bone cell proliferation and defect reparation without a magnetic field. 2012 , 2, 13007		52
1039	Directional neurite outgrowth on superaligned carbon nanotube yarn patterned substrate. 2012 , 12, 3668-73		60
1038	Method to impart electro- and biofunctionality to neural scaffolds using graphene-polyelectrolyte multilayers. 2012 , 4, 4524-31		74
1037	Stem Cells and Cancer Stem Cells, Volume 8. 2012 ,		3
1036	Dimensional stability of electrospun membranes of poly(l-lactide-co-glycolide)/poly(l-lactide-co-glycolide)-b-polyethylene glycol blends under stretch. 2012 , 19, 1		
1035	Electrospun poly(L-lactic acid) fiber mats containing a crude <i>Garcinia cowa</i> extract for wound dressing applications. 2012 , 19, 1		12
1034	Fabrication of large pores in electrospun nanofibrous scaffolds for cellular infiltration: a review. 2012 , 18, 77-87		159

1033	Engineered Polymeric Biomaterials for Tissue Engineering. 2012 , 1, 41-53	12
1032	Carbon nanotubes impregnated with subventricular zone neural progenitor cells promotes recovery from stroke. 2012 , 7, 2751-65	32
1031	Fabrication of 3D electrospun structures from poly(lactide-co-glycolide acid)/nano-hydroxyapatite composites. 2012 , 50, 242-249	16
1030	Preparation of electrospun electroactive POMA fiber mats. 2012 , 61, 213-221	2
1029	Flat and tubular membrane systems for the reconstruction of hippocampal neuronal network. 2012 , 6, 299-313	16
1028	Chondrogenic potential of electrospun nanofibres for cartilage tissue engineering. 2012 , 6, 536-49	31
1027	Aligned electrospun scaffolds and elastogenic factors for vascular cell-mediated elastic matrix assembly. 2012 , 6, 673-86	22
1026	Stereochemical heterogeneity of biodegradable poly(L-lactide) homopolymer as revealed by temperature rising elution fractionation and successive self-nucleation/annealing thermal fractionation. 2012 , 50, 1277-1285	4
1025	Microarray with micro- and nano-topographies enables identification of the optimal topography for directing the differentiation of primary murine neural progenitor cells. 2012 , 8, 3050-61	97
1024	Nanotechnology-novel therapeutics for CNS disorders. 2012 , 8, 307-18	124
1023	Formation of Highly Aligned, Single-Layered, Hollow Fibrous Assemblies and the Fabrication of Large Pieces of PLLA Membranes. 2012 , 297, 115-122	22
1022	A Novel Approach to Prepare Uniaxially Aligned Nanofibers and Longitudinally Aligned Seamless Tubes Through Electrospinning. 2012 , 297, 604-608	8
1021	Novel biodegradable three-dimensional macroporous scaffold using aligned electrospun nanofibrous yarns for bone tissue engineering. 2012 , 100, 1187-94	78
1020	In vivo biofunctionality comparison of different topographic PLLA scaffolds. 2012 , 100, 1751-60	13
1019	Activated charcoal composite biomaterial promotes human embryonic stem cell differentiation toward neuronal lineage. 2012 , 100, 2006-17	14
1018	Nanofiber diameter-dependent MAPK activity in osteoblasts. 2012 , 100, 2921-8	25
1017	Electrospun nanofibers for regenerative medicine. 2012 , 1, 10-25	389
1016	Correlations of in vitro and in vivo degradation tests on electrospun poly-DL-lactide-poly(ethylene glycol) fibers. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 2207-2215	2.9 8

1015	Highly aligned electrospun nanofibers by elimination of the whipping motion. <i>Journal of Applied Polymer Science</i> , 2012 , 125, 2433-2441	2.9	69
1014	Using polymeric materials to control stem cell behavior for tissue regeneration. 2012 , 96, 63-81		34
1013	Biomimetic micropatterned multi-channel nerve guides by templated electrospinning. 2012 , 109, 1571-82		47
1012	Next generation nerve guides: materials, fabrication, growth factors, and cell delivery. 2012 , 18, 116-28		157
1011	Patterning methods for polymers in cell and tissue engineering. 2012 , 40, 1339-55		123
1010	The Potential of Stem Cells and Tissue Engineered Scaffolds for Repair of the Central Nervous System. 2012 , 97-111		6
1009	Preparation and characterization of poly(L-lactide)/graphene composites using the in situ ring-opening polymerization of PLLA with graphene as the initiator. 2012 , 22, 10805		71
1008	Axially aligned electrically conducting biodegradable nanofibers for neural regeneration. 2012 , 23, 1797-809		45
1007	Electrospun aligned PLLA/PCL/functionalised multiwalled carbon nanotube composite fibrous membranes and their bio/mechanical properties. 2012 , 72, 248-255		56
1006	The differential effects of aligned electrospun PHBHHx fibers on adipogenic and osteogenic potential of MSCs through the regulation of PPAR β signaling. <i>Biomaterials</i> , 2012 , 33, 485-93	15.6	79
1005	The impact of PLGA scaffold orientation on in vitro cartilage regeneration. <i>Biomaterials</i> , 2012 , 33, 2926-35	5.6	93
1004	Stem cell-biomaterial interactions for regenerative medicine. 2012 , 30, 338-51		157
1003	Electrospun aligned PLLA/PCL/HA composite fibrous membranes and their in vitro degradation behaviors. 2012 , 82, 159-162		28
1002	Early stage structural evolution of PLLA porous scaffolds in thermally induced phase separation process and the corresponding biodegradability and biological property. 2012 , 97, 955-963		37
1001	Novel polyimide-based electrospun carbon nanofibers prepared using ion-beam irradiation. 2012 , 53, 2062-2067		20
1000	Ultrafine electrospun nanofiber created from cross-linked polyimide solution. 2012 , 53, 2217-2222		20
999	Alignment of human vascular smooth muscle cells on parallel electrospun synthetic elastin fibers. 2012 , 100, 155-61		45
998	The effects of electrospun TSF nanofiber diameter and alignment on neuronal differentiation of human embryonic stem cells. 2012 , 100, 632-45		83

997	Scaffolds for central nervous system tissue engineering. 2012 , 6, 1-25		36
996	Nanofiber-based scaffolds for tissue engineering. 2012 , 35, 135-149		67
995	Preparation of porous poly(l-lactic acid)/tobermorite composite membranes via electrospinning and heat treatment. 2012 , 47, 643-648		4
994	Orientation microstructure and properties of poly(propylene carbonate)/poly(butylene succinate) blend films. <i>Journal of Applied Polymer Science</i> , 2013 , 128, 390-399	2.9	20
993	Primordium of an artificial Bruch's membrane made of nanofibers for engineering of retinal pigment epithelium cell monolayers. 2013 , 9, 9414-22		79
992	Current approaches to electrospun nanofibers for tissue engineering. 2013 , 8, 014102		181
991	Designing electrospun nanofiber mats to promote wound healing - a review. <i>Journal of Materials Chemistry B</i> , 2013 , 1, 4531-4541	7.3	339
990	Fiber-based tissue engineering: Progress, challenges, and opportunities. 2013 , 31, 669-87		330
989	Polymeric Nanofibers in Regenerative Medicine. 2013 , 197-225		1
988	Physicochemical properties and applications of poly(lactic-co-glycolic acid) for use in bone regeneration. 2013 , 19, 380-90		97
987	Surface modification of electrospun fibre meshes by oxygen plasma for bone regeneration. <i>Biofabrication</i> , 2013 , 5, 015006	10.5	65
986	Automated Methods to Determine Electrospun Fiber Alignment and Diameter Using the Radon Transform. 2013 , 3, 329-342		15
985	Adipose-derived stem cells could sense the nano-scale cues as myogenic-differentiating factors. 2013 , 24, 2439-47		17
984	Cotton wool-like poly(lactic acid)/vaterite composite scaffolds releasing soluble silica for bone tissue engineering. 2013 , 24, 1649-58		21
983	Investigation of 2D and 3D electrospun scaffolds intended for tendon repair. 2013 , 24, 1605-14		64
982	Micro- and Nanoengineering Approaches to Developing Gradient Biomaterials Suitable for Interface Tissue Engineering. 2013 , 52-79		8
981	Stem Cells and Nanotechnology in Tissue Engineering and Regenerative Medicine. 2013 , 1-26		1
980	Synthetic Enroutes to Engineer Electrospun Scaffolds for Stem Cells and Tissue Regeneration. 2013 , 119-141		

979	Time-regulated drug delivery system based on coaxially incorporated platelet granules for biomedical use. 2013 , 8, 1137-54		23
978	Effects of PLGA nanofibrous scaffolds structure on nerve cell directional proliferation and morphology. <i>Fibers and Polymers</i> , 2013 , 14, 698-702	2	15
977	Electrospinning Fundamentals and Applications. 2013 , 332-339		
976	Biomimetic electrospun nanofibrous structures for tissue engineering. 2013 , 16, 229-241		541
975	Tissue growth into three-dimensional composite scaffolds with controlled micro-features and nanotopographical surfaces. 2013 , 101, 2796-807		40
974	Electrospinning of polyvinylalcohol/polycaprolactone composite scaffolds for tissue engineering applications. 2013 , 70, 2995-3010		25
973	Incorporation of parallel electrospun fibers for improved topographical guidance in 3D nerve guides. <i>Biofabrication</i> , 2013 , 5, 035015	10.5	45
972	Preparation and characterization of polylactide nanofibers via melt extrusion of polylactide/copolyester blends. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 2832-2838	2.9	3
971	Microvascular endothelial cell spreading and proliferation on nanofibrous scaffolds by polymer blends with enhanced wettability. 2013 , 9, 5529		32
970	Tumors of the Central Nervous System, Volume 10. 2013 ,		0
969	Electrospun PLLA fibers coated with chitosan/heparin for scaffold of vascular tissue engineering. 2013 , 228, S568-S573		18
968	Regulation of the osteogenesis of pre-osteoblasts by spatial arrangement of electrospun nanofibers in two- and three-dimensional environments. 2013 , 9, 1283-92		52
967	Nanotechnology for tissue engineering: Need, techniques and applications. 2013 , 7, 200-204		57
966	Novel biodegradable electrospun nanofibrous P(DLLA-CL) balloons for the treatment of vertebral compression fractures. 2013 , 9, 829-38		47
965	Helical peanut-shaped poly(vinyl pyrrolidone) ribbons generated by electrospinning. 2013 , 54, 6752-6759		12
964	Polyhydroxyalkanoates from Palm Oil: Biodegradable Plastics. 2013 ,		12
963	A facile synthesis of polyaniline/polyethylene glycol/polyaniline terpolymers: preparation of electrospun conducting nanofibers by blending of the terpolymers with polycaprolactone. 2013 , 70, 3529-3545		13
962	4-Dibenzocyclooctynol (DIBO) as an initiator for poly(ϵ -caprolactone): copper-free clickable polymer and nanofiber-based scaffolds. 2013 , 4, 2215		33

961	Directed differentiation and neurite extension of mouse embryonic stem cell on aligned poly(lactide) nanofibers functionalized with YIGSR peptide. <i>Biomaterials</i> , 2013 , 34, 9089-95	15.6	114
960	Electrospun Nanofibers for Regenerative Medicine. 2013 , 265-295		
959	Single-walled carbon nanotubes selectively influence maize root tissue development accompanied by the change in the related gene expression. 2013 , 246-247, 110-8		106
958	Nanofiber for cardiovascular tissue engineering. 2013 , 10, 1565-82		34
957	Nanofiber scaffolds facilitate functional regeneration of peripheral nerve injury. 2013 , 9, 305-15		70
956	Hetero-epitaxy of anisotropic polycaprolactone films for the guidance of smooth muscle cell growth. 2013 , 49, 10421-3		3
955	Two- and three-dimensional tissue culture bioprocessing methods for soft tissue engineering. 2013 , 34-53		
954	Neural differentiation on synthetic scaffold materials. 2013 , 1, 1119-1137		24
953	Biomaterial approaches to gene therapies for neurodegenerative disorders of the CNS. 2013 , 1, 556-576		18
952	State of the art composites comprising electrospun fibres coupled with hydrogels: a review. 2013 , 9, 322-35		104
951	Neuronal Tissue Engineering. 2013 , 1291-1306		4
950	How smart do biomaterials need to be? A translational science and clinical point of view. 2013 , 65, 581-603		350
949	Electrospun synthetic and natural nanofibers for regenerative medicine and stem cells. 2013 , 8, 59-72		80
948	Advantages of surface-initiated ATRP (SI-ATRP) for the functionalization of electrospun materials. 2013 , 34, 51-6		29
947	Tissue engineering the retinal ganglion cell nerve fiber layer. <i>Biomaterials</i> , 2013 , 34, 4242-50	15.6	57
946	Fabrication of nano-fibrous poly(L-lactic acid) scaffold reinforced by surface modified chitosan micro-fiber. 2013 , 61, 353-8		21
945	Stem cell differentiation on electrospun nanofibrous substrates for vascular tissue engineering. 2013 , 33, 4640-50		44
944	Functional nanofiber mat of polyvinyl alcohol/gelatin containing nanoparticles of biphasic calcium phosphate for bone regeneration in rat calvaria defects. 2013 , 101, 2412-23		48

943	Fabrication of conductive NGF-conjugated polypyrrole-poly(l-lactic acid) fibers and their effect on neurite outgrowth. 2013 , 110, 450-7	34
942	Directing neural stem cell fate with biomaterial parameters for injured brain regeneration. 2013 , 23, 103-112	30
941	Biomaterials and stem cells for tissue engineering. 2013 , 13, 527-40	34
940	Cell electrospinning: a novel tool for functionalising fibres, scaffolds and membranes with living cells and other advanced materials for regenerative biology and medicine. 2013 , 138, 2215-23	159
939	Dermal fibroblast infiltration of poly(ϵ -caprolactone) scaffolds fabricated by melt electrospinning in a direct writing mode. <i>Biofabrication</i> , 2013 , 5, 025001	10.5 143
938	Effects of humidity and solution viscosity on electrospun fiber morphology. 2013 , 19, 810-9	250
937	Relationship between the rigid amorphous phase and mesophase in electrospun fibers. 2013 , 54, 2544-2554	50
936	Use of Electrospinning for Encapsulation. 2013 , 107-135	3
935	Fusidic acid and rifampicin co-loaded PLGA nanofibers for the prevention of orthopedic implant associated infections. 2013 , 170, 64-73	89
934	Multifunctional nanostructured PLA materials for packaging and tissue engineering. 2013 , 38, 1720-1747	421
933	Electro-spinning/netting: A strategy for the fabrication of three-dimensional polymer nano-fiber/nets. 2013 , 58, 1173-1243	375
932	Development of bilayer and trilayer nanofibrous/microfibrous scaffolds for regenerative medicine. 2013 , 1, 942-951	36
931	Electrospinning of multilevel structured functional micro-/nanofibers and their applications. 2013 , 1, 7290	262
930	In vivo biocompatibility evaluation of electrospun composite scaffolds by subcutaneous implantation in rat. 2013 , 3, 504-17	10
929	Combining technologies to create bioactive hybrid scaffolds for bone tissue engineering. 2013 , 3,	35
928	Preparation and characterization of poly(pluronic-co-L-lactide) nanofibers for tissue engineering. 2013 , 58, 79-86	20
927	Tissue Engineering Scaffolds. 2013 , 1138-1159	5
926	Layered Gradient Nonwovens of In Situ Crosslinked Electrospun Collagenous Nanofibers Used as Modular Scaffold Systems for Soft Tissue Regeneration. 2013 , 23, 3277-3285	31

925	Electrospun silk fibroin nanofibers in different diameters support neurite outgrowth and promote astrocyte migration. 2013 , 101, 2667-78		59
924	Nanomaterial scaffolds for stem cell proliferation and differentiation in tissue engineering. 2013 , 31, 654-68		175
923	Bi-layer collagen/microporous electrospun nanofiber scaffold improves the osteochondral regeneration. 2013 , 9, 7236-47		90
922	Preparation and performance evaluations of electrospun poly(ε-caprolactone), poly(lactic acid), and their hybrid (50/50) nanofibrous mats containing thymol as an herbal drug for effective wound healing. <i>Journal of Applied Polymer Science</i> , 2013 , 129, 756-766	2.9	124
921	Engineering three-dimensional collagen-IKVAV matrix to mimic neural microenvironment. 2013 , 4, 1229-35		75
920	Geometry Force Control of Stem Cell Fate. 2013 , 3, 43-51		18
919	Effects of barium titanate nanoparticles on proliferation and differentiation of rat mesenchymal stem cells. 2013 , 102, 312-20		75
918	Investigation of microstructure, mechanical properties and cellular viability of poly(L-lactic acid) tissue engineering scaffolds prepared by different thermally induced phase separation protocols. 2013 , 17, 186-97		32
917	Synthesis of polymeric nanomaterials for biomedical applications. 2013 , 27-63		9
916	Crystalline Morphology of Electrospun Poly(ε-caprolactone) (PCL) Nanofibers. 2013 , 52, 4939-4949		111
915	Crosslinked gelatin nanofibres: preparation, characterisation and in vitro studies using glial-like cells. 2013 , 33, 2723-35		55
914	Evaluation of the Effect of NT-3 and Biodegradable Poly-L-lactic Acid Nanofiber Scaffolds on Differentiation of Rat Hair Follicle Stem Cells into Neural Cells In Vitro. 2013 , 51, 318		13
913	Micro/nano-scale materials and structures for constructing neuronal networks and addressing neurons. 2013 , 1, 7652		12
912	Engineered nanotopography on electrospun PLLA microfibers modifies RAW 264.7 cell response. 2013 , 5, 10173-84		42
911	Polyhydroxyalkanoates: The Natural Polymers Produced by Bacterial Fermentation. 2013 , 397-421		14
910	Influence of fibre diameter and orientation of electrospun copolyetheresterurethanes on smooth muscle and endothelial cell behaviour. 2013 , 55, 513-22		13
909	Advanced Strategies for Articular Cartilage Defect Repair. 2013 , 6, 637-668		69
908	Nanomembranes and Nanofibers from Biodegradable Conducting Polymers. <i>Polymers</i> , 2013 , 5, 1115-1157	1.5	66

907	Influence of Fe ₃ O ₄ Nanoparticles on the Preparation of Aligned PLGA Electrospun Fibers Induced by Magnetic Field. 2013 , 2013, 1-9	9
906	Emerging Stem Cell Controls: Nanomaterials and Plasma Effects. 2013 , 2013, 1-15	13
905	A Review of the Effect of Processing Variables on the Fabrication of Electrospun Nanofibers for Drug Delivery Applications. 2013 , 2013, 1-22	373
904	Cell orientation and regulation of cell-cell communication in human mesenchymal stem cells on different patterns of electrospun fibers. 2013 , 8, 055002	45
903	Evaluation of a nisin-eluting nanofiber scaffold to treat Staphylococcus aureus-induced skin infections in mice. 2013 , 57, 3928-35	94
902	Electrospinning of Nanofibers for Tissue Engineering Applications. 2013 , 2013, 1-11	95
901	Fabrication of nanofibrous scaffolds for tissue engineering applications. 2013 , 158-183	13
900	Nanotechnology in the regulation of stem cell behavior. 2013 , 14, 054401	23
899	Effect of Ultrasonic Vibration on Electrospun Poly(vinyl Alcohol) (PVA) Nanofibers. 2013 , 843, 1-8	2
898	Glutaraldehyde cross-linking of amniotic membranes affects their nanofibrous structures and limbal epithelial cell culture characteristics. 2013 , 8, 4157-68	30
897	Hybrid microfabrication of nanofiber-based sheets and rods for tissue engineering applications. 2013 , 18, 494-503	7
896	Preparation, modification, and characterization of alginate hydrogel with nano-/microfibers: a new perspective for tissue engineering. 2013 , 2013, 307602	11
895	A novel method to precisely assemble loose nanofiber structures for regenerative medicine applications. 2013 , 2, 343-51	25
894	Development and Characterization of Electrospun Poly(2-hydroxy ethyl methacrylate) for Tissue Engineering Applications. 2013 , 32, n/a-n/a	4
893	Electrically Conducting Polymer-Based Nanofibrous Scaffolds for Tissue Engineering Applications. 2013 , 53, 443-459	27
892	Plasma treatment induces internal surface modifications of electrospun poly(L-lactic) acid scaffold to enhance protein coating. 2013 , 114, 073304	6
891	Aligned electrospun siloxane-doped vaterite/poly(L-lactide) composite fibremats: evaluation of their tensile strength and cell compatibility. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 2096-109	3.5 1
890	NANOTOPOGRAPHICAL MODULATION OF CELL PHENOTYPE AND FUNCTION. 2013 , 03, 1340003	1

889	Nanofibers and Nanoparticles in Biomedical Applications. 2013 , 93-124	3
888	Fiber Collection. 2013 , 149-158	
887	Polymers from Renewable Resources. 2013 , 1, 83-112	18
886	Development of biomaterials with inorganic ions stimulating osteogenic cell functions. 2013 , 121, 377-381	2
885	Alignment of Cells and Extracellular Matrix Within Tissue- Engineered Substitutes. 2013 ,	19
884	Current State-of-the-Art of Engineered Collagen Based Bone Biomimetics. 2013 , 2, 51-77	
883	Going 3D Cell Culture Approaches for Stem Cell Research and Therapy. 2013 , 2, 8-19	6
882	The effects of topographical patterns and sizes on neural stem cell behavior. 2013 , 8, e59022	59
881	Stem Cells in Tissue Engineering. 2013 ,	3
880	Nanofibrous polymer scaffolds with designed pore structure for regeneration. 91-103	
879	Preparation of PLLA-SiO ₂ Composites Using APTMS as a Crosslinking Agent with the Sol-gel Technique. 2013 , 21, 431-438	2
878	Maintenance and neuronal cell differentiation of neural stem cells C17.2 correlated to medium availability sets design criteria in microfluidic systems. 2014 , 9, e109815	18
877	Electrospun vancomycin-loaded coating on titanium implants for the prevention of implant-associated infections. 2014 , 9, 3027-36	43
876	Bioactive nanofibers. 146-165	
875	The Multifaceted Potential of Electro-spinning in Regenerative Medicine. 2014 , 2, 23-34	24
874	Nanotechnology biomimetic cartilage regenerative scaffolds. 2014 , 41, 231-40	32
873	Materials for Central Nervous System Tissue Engineering. 2014 ,	5
872	Fibrous scaffolds for tissue engineering. 2014 , 34, 023-032	5

871	Nanoengineered Platforms to Guide Pluripotent Stem Cell Fate. 2014 , 5,		3
870	Nanotopographical Surfaces for Stem Cell Fate Control: Engineering Mechanobiology from the Bottom. 2014 , 9, 759-784		136
869	Osteogenesis of human adipose-derived stem cells on hydroxyapatite-mineralized poly(lactic acid) nanofiber sheets. 2014 , 45, 578-88		14
868	CellMaterial Interactions. 2014 , 217-251		7
867	Nanofibrous scaffolds in biomedical applications. 2014 , 18, 5		97
866	Electrospinning of poly(lactic acid)/polyhedral oligomeric silsesquioxane nanocomposites and their potential in chondrogenic tissue regeneration. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 802-25	3.5	18
865	SYNTHESIS AND CHARACTERISATION OF ELECTROSPUN CHITOSAN MEMBRANES REINFORCED BY HALLOYSITE NANOTUBES. 2014 , 14, 1450058		31
864	Nanostructured guidance for peripheral nerve injuries: a review with a perspective in the oral and maxillofacial area. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 3088-117	6.3	16
863	Development of 3D in vitro technology for medical applications. <i>International Journal of Molecular Sciences</i> , 2014 , 15, 17938-62	6.3	65
862	Fabrication and characterisation of chitosan/poly vinyl alcohol nanofibres via electrospinning. 2014 , 18, S6-331-S6-335		10
861	Electrospun nanofibers as versatile interfaces for efficient gene delivery. 2014 , 8, 30		42
860	Chemically modified electrospun silica nanofibers for promoting growth and differentiation of neural stem cells. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1205-1215	7.3	14
859	Tissue engineering of the peripheral nervous system. 2014 , 14, 301-18		73
858	Free-Standing Cell Sheet Assembled with Ultrathin Extracellular Matrix as an Innovative Approach for Biomimetic Tissues. 2014 , 24, 2216-2223		21
857	Chapter 1:Microtechnologies in the Fabrication of Fibers for Tissue Engineering. 2014 , 1-18		4
856	Toxicity assessment of a novel silk fibroin and poly-methyl-methacrylate composite material. 2014 , 10, 277-283		2
855	Electrospun fibre diameter, not alignment, affects mesenchymal stem cell differentiation into the tendon/ligament lineage. 2014 , 8, 937-45		96
854	Nanofiber orientation and surface functionalization modulate human mesenchymal stem cell behavior in vitro. 2014 , 20, 398-409		41

853	Progress of electrospun fibers as nerve conduits for neural tissue repair. 2014 , 9, 1869-83	32
852	Atomic force microscopy visualization of hard segment alignment in stretched polyurethane nanofibers prepared by electrospinning. 2014 , 15, 015008	19
851	Enhancing the crystallization and orientation of electrospinning poly (lactic acid) (PLLA) by combining with additives. 2014 , 21, 1	19
850	Synthetic nanowire/nanotube-based solid substrates for controlled cell growth. 2014 , 1,	9
849	Patterned and functionalized nanofiber scaffolds in three-dimensional hydrogel constructs enhance neurite outgrowth and directional control. 2014 , 11, 066009	58
848	Studies on sandwiched electrospun scaffold of isomers of poly (lactic acid) (PLA) used in tissue engineering. 2014 ,	
847	Artificial neural network for modeling the elastic modulus of electrospun polycaprolactone/gelatin scaffolds. 2014 , 10, 709-21	88
846	Advancements in electrospinning of polymeric nanofibrous scaffolds for tissue engineering. 2014 , 20, 277-93	142
845	Creating polymer hydrogel microfibrils with internal alignment via electrical and mechanical stretching. <i>Biomaterials</i> , 2014 , 35, 3243-51	15.6 69
844	Fabrication and characterization of PCL/gelatin/chitosan ternary nanofibrous composite scaffold for tissue engineering applications. 2014 , 49, 1076-1089	80
843	Electrospinning of PAN nanofibers incorporating SBA-15-type ordered mesoporous silica particles. 2014 , 54, 71-78	11
842	Electrospun poly(caprolactone)-elastin scaffolds for peripheral nerve regeneration. 2014 , 3, 20	26
841	Generation of PGS/PCL Blend Nanofibrous Scaffolds Mimicking Corneal Stroma Structure. 2014 , 299, 455-469	64
840	The study of P19 stem cell behavior on aligned oriented electrospun poly(lactic-co-glycolic acid) nano-fibers for neural tissue engineering. 2014 , 25, 562-567	12
839	Chitosan-coated electrospun PLA fibers for rapid mineralization of calcium phosphate. 2014 , 68, 39-47	58
838	Recent advances in electrospinning technology and biomedical applications of electrospun fibers. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 2369-2380	7.3 93
837	Biodegradable polymers for electrospinning: towards biomedical applications. 2014 , 45, 659-70	252
836	Nerve guidance conduits based on double-layered scaffolds of electrospun nanofibers for repairing the peripheral nervous system. 2014 , 6, 9472-80	113

835	Fabrication of freestanding alginate microfibers and microstructures for tissue engineering applications. <i>Biofabrication</i> , 2014 , 6, 024104	10.5	13
834	Carboxyl Surface Functionalization of Poly(L-lactic acid) Electrospun Nanofibers through Atmospheric Non-Thermal Plasma Affects Fibroblast Morphology. 2014 , 11, 203-213		40
833	A novel method for three-dimensional culture of central nervous system neurons. 2014 , 20, 485-92		25
832	Directed neurite growth of rat dorsal root ganglion neurons and increased colocalization with Schwann cells on aligned poly(methyl methacrylate) electrospun nanofibers. 2014 , 1565, 18-27		24
831	Neural tissue engineering options for peripheral nerve regeneration. <i>Biomaterials</i> , 2014 , 35, 6143-56	15.6	394
830	Generation of biofunctional and biodegradable electrospun nanofibers composed of poly (l-lactic acid) and wool isoelectric precipitate. 2014 , 84, 355-367		4
829	Enhanced stem cell pluripotency in surface-modified electrospun fibrous matrices. 2014 , 14, 215-24		5
828	The potential of anisotropic matrices as substrate for heart valve engineering. <i>Biomaterials</i> , 2014 , 35, 1833-44	15.6	38
827	Electrospun fiber scaffolds of poly (glycerol-dodecanedioate) and its gelatin blended polymers for soft tissue engineering. <i>Biofabrication</i> , 2014 , 6, 035005	10.5	15
826	??? ??? ?? ????? ??? ????? ?? ?. <i>Tissue Engineering and Regenerative Medicine</i> , 2014 , 11, 64-71	4.5	1
825	Therapeutic application of electrospun nanofibrous meshes. 2014 , 9, 517-33		29
824	Nanofibrous electroactive scaffolds from a chitosan-grafted-aniline tetramer by electrospinning for tissue engineering. 2014 , 4, 13652		61
823	Fabrication of Polyvinyl Alcohol-Polyvinylpyrrolidone Blend Scaffolds via Electrospinning for Tissue Engineering Applications. 2014 , 63, 476-485		28
822	Electrospun zein/PVA fibrous mats as three-dimensional surface for embryonic stem cell culture. 2014 , 105, 246-255		4
821	Thermoresponsive elastin/laminin mimicking artificial protein for modifying PLLA scaffolds in nerve regeneration. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5061-5067	7.3	8
820	Silk fibroin tissue engineering scaffolds with aligned electrospun fibers in multiple layers. 2014 , 4, 47570-47575		7
819	Neurite outgrowth on electrospun nanofibers with uniaxial alignment: the effects of fiber density, surface coating, and supporting substrate. 2014 , 8, 1878-85		140
818	Influence of morphology on the emissive properties of dye-doped PVP nanofibers produced by electrospinning. 2014 , 75, 1365-1371		14

817	A microwell pattern for C17.2 cell aggregate formation with concave cylindrical surface induced cell peeling. <i>Biomaterials</i> , 2014 , 35, 9423-37	15.6	6
816	Emerging chitin and chitosan nanofibrous materials for biomedical applications. 2014 , 6, 9477-93		262
815	Engineering of biomimetic nanofibrous matrices for drug delivery and tissue engineering. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 7828-7848	7.3	72
814	Electrospinning of aniline pentamer-graft-gelatin/PLLA nanofibers for bone tissue engineering. 2014 , 10, 5074-5080		82
813	Fabrication and evaluation of PLLA multichannel conduits with nanofibrous microstructure for the differentiation of NSCs in vitro. 2014 , 20, 1038-48		32
812	Aligned nanofibers as an interfacial layer for achieving high-detectivity and fast-response organic photodetectors. 2014 , 6, 7032-7		24
811	Insights into the production and characterization of electrospun fibers from regenerated silk fibroin. 2014 , 60, 123-134		10
810	Extending neurites sense the depth of the underlying topography during neuronal differentiation and contact guidance. <i>Biomaterials</i> , 2014 , 35, 7750-61	15.6	89
809	Thermally-induced miniaturization for micro- and nanofabrication: progress and updates. 2014 , 14, 3475-88		50
808	Electrospun membranes: control of the structure and structure related applications in tissue regeneration and drug delivery. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 5492-5510	7.3	85
807	Tissue-engineering-based strategies for regenerative endodontics. 2014 , 93, 1222-31		149
806	Polypyrrole-coated electrospun poly(lactic acid) fibrous scaffold: effects of coating on electrical conductivity and neural cell growth. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2014 , 25, 1240-52	3.5	43
805	Fabrication and in vitro evaluation of an articular cartilage extracellular matrix-hydroxyapatite bilayered scaffold with low permeability for interface tissue engineering. 2014 , 13, 80		27
804	Poly(lactide (PLA)-Based Electrospun Fibrous Materials Containing Ionic Drugs as Wound Dressing Materials: A Review. 2014 , 63, 657-671		60
803	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
802	Optimization of fully aligned bioactive electrospun fibers for "in vitro" nerve guidance. 2014 , 25, 2323-32		48
801	Influence of biological matrix and artificial electrospun scaffolds on proliferation, differentiation and trophic factor synthesis of rat embryonic stem cells. 2014 , 33, 68-76		21
800	Atmospheric Pressure Non-Equilibrium Plasma Treatment to Improve the Electrospinnability of Poly(L-Lactic Acid) Polymeric Solution. 2014 , 11, 247-255		33

799	Guidance of in vitro migration of human mesenchymal stem cells and in vivo guided bone regeneration using aligned electrospun fibers. 2014 , 20, 2031-42	51
798	Carbon nanotube-collagen three-dimensional culture of mesenchymal stem cells promotes expression of neural phenotypes and secretion of neurotrophic factors. 2014 , 10, 4425-36	66
797	Human airway smooth muscle maintain in situ cell orientation and phenotype when cultured on aligned electrospun scaffolds. 2014 , 307, L38-47	15
796	3D nano/microfabrication techniques and nanobiomaterials for neural tissue regeneration. 2014 , 9, 859-75	88
795	Synthesis and characterization of graphene oxide/polyimide nanofiber composites. 2014 , 4, 9743	48
794	Novel elastomeric fibrous networks produced from poly(xylitol sebacate)2:5 by core/shell electrospinning: fabrication and mechanical properties. 2014 , 40, 210-221	8
793	Electrospun poly lactic acid (PLA) fibres: Effect of different solvent systems on fibre morphology and diameter. 2014 , 55, 4728-4737	205
792	Interaction of Schwann cells with laminin encapsulated PLCL core-shell nanofibers for nerve tissue engineering. 2014 , 50, 30-38	63
791	Modeling of composite fibrous porous diffusion media. 2014 , 39, 9375-9386	18
790	Microfluidic spinning of micro- and nano-scale fibers for tissue engineering. 2014 , 14, 2145-60	232
789	Electrospun Polyaniline/Poly(ethylene oxide) Composite Nanofibers Based Gas Sensor. 2014 , 26, 711-722	40
788	Enhanced chondrogenesis of human nasal septum derived progenitors on nanofibrous scaffolds. 2014 , 40, 445-54	31
787	Enhancement of retinal pigment epithelial culture characteristics and subretinal space tolerance of scaffolds with 200 nm fiber topography. <i>Biomaterials</i> , 2014 , 35, 2837-50	15.6 72
786	Applications of micro- and nanofibers, and micro- and nanoparticles: healthcare, nutrition, drug delivery and personal care. 380-431	1
785	Chapter 4: Recent Advances on Three-Dimensional Electrospun Nanofiber Scaffolds for Tissue Regeneration and Repair. 2014 , 125-162	
784	Chapter 10: The Convergence of Biomimetic Nanofibers and Cells for Functional Tissue Formation. 2014 , 435-471	
783	Recent advances in nerve tissue engineering. 2014 , 37, 277-91	40
782	Electrospinning Techniques to Control Deposition and Structural Alignment of Nanofibrous Scaffolds for Cellular Orientation and Cytoskeletal Reorganization. 2014 , 285-304	1

781	Nanostructures for Musculoskeletal Tissue Engineering. 2014 , 407-434	1
780	Tissue Engineering: The Therapeutic Strategy of the Twenty-First Century. 2014 , 3-38	1
779	Ratiometric Organic Fibers for Localized and Reversible Ion Sensing with Micrometer-Scale Spatial Resolution. 2015 , 11, 6417-24	17
778	- UNDERSTANDING NONWOVENS: CONCEPTS AND APPLICATIONS. 2015 , 20-77	
777	Bridging the Gap: From 2D Cell Culture to 3D Microengineered Extracellular Matrices. 2015 , 4, 2780-96	71
776	Investigation of the changes of biophysical/mechanical characteristics of differentiating preosteoblasts in vitro. 2015 , 19, 24	8
775	Comparing different methods to fix and to dehydrate cells on alginate hydrogel scaffolds using scanning electron microscopy. 2015 , 78, 553-61	14
774	Nanotopographical control of human embryonic stem cell differentiation into definitive endoderm. 2015 , 103, 3539-53	24
773	Engineering nanoscale stem cell niche: direct stem cell behavior at cell-matrix interface. 2015 , 4, 1900-14	34
772	Nano-textured fluidic biochip as biological filter for selective survival of neuronal cells. 2015 , 103, 2015-23	7
771	Recent Advances in Electrospun Nanofibrous Scaffolds for Cardiac Tissue Engineering. 2015 , 25, 5726-5738	126
770	Engineering Anisotropic 2D and 3D Structures for Tendon Repair and Regeneration. 2015 , 225-242	3
769	Smart Dressings Based on Nanostructured Fibers Containing Natural Origin Antimicrobial, Anti-Inflammatory, and Regenerative Compounds. 2015 , 8, 5154-5193	114
768	Recapitulating the Tumor Ecosystem Along the Metastatic Cascade Using 3D Culture Models. 2015 , 5, 170	21
767	Nanofibrous scaffolds supporting optimal central nervous system regeneration: an evidence-based review. 2015 , 123	0
766	The Effect of Surface Modification of Aligned Poly-L-Lactic Acid Electrospun Fibers on Fiber Degradation and Neurite Extension. 2015 , 10, e0136780	27
765	Preparation and Characterization of Nanofibrous Polymer Scaffolds for Cartilage Tissue Engineering. 2015 , 2015, 1-9	14
764	Hydrogels and Cell Based Therapies in Spinal Cord Injury Regeneration. 2015 , 2015, 948040	103

763	. 2015 ,		3
762	Coextruded, aligned, and gradient-modified poly(ε-caprolactone) fibers as platforms for neural growth. 2015 , 16, 860-7		45
761	microRNA regulatory mechanism by which PLLA aligned nanofibers influence PC12 cell differentiation. 2015 , 12, 046010		16
760	Mechanical characterization of high-performance graphene oxide incorporated aligned fibroporous poly(carbonate urethane) membrane for potential biomedical applications. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	27
759	Amphiphilic multiblock copolymers of PLLA, PEO and PPO blocks: Synthesis, properties and cell affinity. 2015 , 68, 618-629		11
758	Enhanced biocompatibility and wound healing properties of biodegradable polymer-modified allyl 2-cyanoacrylate tissue adhesive. 2015 , 51, 43-50		18
757	Engineering aligned electrospun PLLA microfibers with nano-porous surface nanotopography for modulating the responses of vascular smooth muscle cells. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 4439-4450	7.3	83
756	Orthogonally oriented scaffolds with aligned fibers for engineering intestinal smooth muscle. <i>Biomaterials</i> , 2015 , 61, 75-84	15.6	32
755	Self-renewal of human embryonic stem cells on defined synthetic electrospun nanofibers. 2015 , 10, 065017		11
754	Release of allyl isothiocyanate from mustard seed meal powder entrapped in electrospun PLAPEO nonwovens. 2015 , 77, 467-475		29
753	3D Printing with Nucleic Acid Adhesives. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 19-26	5.5	21
752	Constitutive modeling of an electrospun tubular scaffold used for vascular tissue engineering. 2015 , 14, 897-913		7
751	Enhanced Schwann cell attachment and alignment using one-pot "dual click" GRGDS and YIGSR derivatized nanofibers. 2015 , 16, 357-63		41
750	Electrospinning of Nylon11: Effect of processing parameters on morphology and microstructure. 2015 , 3, 141-148		11
749	Cell Alignment Driven by Mechanically Induced Collagen Fiber Alignment in Collagen/Alginate Coatings. 2015 , 21, 881-8		30
748	Nanotechnology and 3D Bioprinting for Neural Tissue Regeneration. 2015 , 307-331		5
747	Enhanced differentiation of neural progenitor cells into neurons of the mesencephalic dopaminergic subtype on topographical patterns. <i>Biomaterials</i> , 2015 , 43, 32-43	15.6	47
746	Development of Polyvinyl Alcohol Fibrous Biodegradable Scaffolds for Nerve Tissue Engineering Applications: In Vitro Study. 2015 , 64, 474-480		37

745	Properties of aligned poly(L-lactic acid) electrospun fibers. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	8
744	Electrospinning predictions using artificial neural networks. 2015 , 58, 22-29		20
743	Biomimetic Nanostructures by Electrospinning and Electro spraying. 2015 , 123-141		2
742	Expansion of Stem Cells by Nanotissue Engineering. 2015 , 243-263		
741	Nanopatterned Surfaces for Stem-Cell Engineering. 2015 , 97-122		
740	Tissue Engineering in Peripheral Nerve Regeneration. 2015 , 73-99		7
739	Physical regulation of stem cells differentiation into teno-lineage: current strategies and future direction. 2015 , 360, 195-207		27
738	Bladder Acellular Matrix Graft Reinforced Silk Fibroin Composite Scaffolds Loaded VEGF with Aligned Electrospun Fibers in Multiple Layers. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 238-246 ^{5.5}		19
737	Effect of Twist and Draw on Morphology and Tensile Property of Electrospun Nanofibrous Yarns. 2015 , 54, 1106-1112		3
736	Fabrication of aligned, porous and conductive fibers and their effects on cell adhesion and guidance. 2015 , 134, 469-74		39
735	Mesoporous silica particle-PLA-PANI hybrid scaffolds for cell-directed intracellular drug delivery and tissue vascularization. 2015 , 7, 14434-43		33
734	Large-scale topographical screen for investigation of physical neural-guidance cues. 2015 , 5, 8644		49
733	Piezoelectric materials for tissue regeneration: A review. 2015 , 24, 12-23		270
732	Aligned multilayered electrospun scaffolds for rotator cuff tendon tissue engineering. 2015 , 24, 117-26		134
731	Preparation of poly(L-lactic acid) nanofiber scaffolds with a rough surface by phase inversion using supercritical carbon dioxide. 2015 , 10, 035015		9
730	Lysine-doped polypyrrole/spider silk protein/poly(L-lactic) acid containing nerve growth factor composite fibers for neural application. 2015 , 56, 564-73		38
729	Electrospinning of PEGylated polyamidoamine dendrimer fibers. 2015 , 56, 189-94		8
728	Sub-ms dynamics of the instability onset of electrospinning. 2015 , 11, 3424-31		23

727	Nanofibrous composite scaffolds of poly(ester amides) with tunable physicochemical and degradation properties. 2015 , 68, 21-35		23
726	Effect of organic acids on calcium phosphate nucleation and osteogenic differentiation of human mesenchymal stem cells on peptide functionalized nanofibers. 2015 , 31, 5130-40		27
725	Enhanced PC12 cells proliferation with self-assembled S-layer proteins scaffolds. 2015 , 175, 223-31		4
724	Surface grafting of chitosan shell, polycaprolactone core fiber meshes to confer bioactivity. 2015 , 30, 258-274		10
723	Networked neural spheroid by neuro-bundle mimicking nervous system created by topology effect. 2015 , 8, 17		41
722	Electrospinning of Biodegradable Polymer Scaffolds. 2015 , 46, 345-348		6
721	PLLA nanofibrous paper-based plasmonic substrate with tailored hydrophilicity for focusing SERS detection. 2015 , 7, 5391-9		93
720	Polymer-based platforms by electric field-assisted techniques for tissue engineering and cancer therapy. 2015 , 12, 113-29		45
719	Directed Neural Stem Cell Differentiation with a Functionalized Graphene Oxide Nanocomposite. 2015 , 4, 1408-16		81
718	Electroactive biocompatible materials for nerve cell stimulation. 2015 , 2, 042001		15
717	Effects of fiber alignment on stem cells-fibrous scaffold interactions. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 3358-3366	7:3	25
716	Aligned Electroactive TMV Nanofibers as Enabling Scaffold for Neural Tissue Engineering. 2015 , 16, 3466-72		29
715	Effect of nanofiber orientation of electrospun nanofibrous scaffolds on cell growth and elastin expression of muscle cells. 2015 , 136, 772-8		37
714	Electrospinning of Bioinspired Polymer Scaffolds. 2015 , 881, 33-53		11
713	Drug release, cell adhesion and wound healing evaluations of electrospun carboxymethyl chitosan/polyethylene oxide nanofibres containing phenytoin sodium and vitamin C. 2015 , 9, 191-200		43
712	Nerve conduits constructed by electrospun P(LLA-CL) nanofibers and PLLA nanofiber yarns. <i>Journal of Materials Chemistry B</i> , 2015 , 3, 8823-8831	7:3	40
711	Osteogenic differentiation of adipose derived stem cells on high and low aspect ratio micropatterns. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2015 , 26, 1402-24	3:5	17
710	Ultraporous nanofeatured PCL-PEO microfibrillar scaffolds enhance cell infiltration, colonization and myofibroblastic differentiation. 2015 , 7, 14989-95		16

709	Anisotropic poly (glycerol sebacate)-poly (?-caprolactone) electrospun fibers promote endothelial cell guidance. <i>Biofabrication</i> , 2014 , 7, 015001	10.5	77
708	Injectable Peptide Decorated Functional Nanofibrous Hollow Microspheres to Direct Stem Cell Differentiation and Tissue Regeneration. 2015 , 25, 350-360		73
707	Electrospinning of polymer nanofibers for tissue regeneration. 2015 , 46, 1-24		320
706	Electrospun bilayer fibrous scaffolds for enhanced cell infiltration and vascularization in vivo. 2015 , 13, 131-41		50
705	Methods for Nano/Micropatterning of Substrates: Toward Stem Cells Differentiation. 2015 , 64, 338-353		8
704	Oriented matrix promotes directional tubulogenesis. 2015 , 11, 264-73		8
703	Plug and play: combining materials and technologies to improve bone regenerative strategies. 2015 , 9, 745-59		18
702	PC12 neuron-like cell response to electrospun poly(3-hydroxybutyrate) substrates. 2015 , 9, 151-61		28
701	Electrospun vascular grafts with improved compliance matching to native vessels. 2015 , 103, 313-23		48
700	Controlled surface morphology and hydrophilicity of polycaprolactone toward selective differentiation of mesenchymal stem cells to neural like cells. 2015 , 103, 1875-81		39
699	Effectiveness of hybridized nano- and microstructure biodegradable, biocompatible, collagen-based, three-dimensional bioimplants in repair of a large tendon-defect model in rabbits. 2016 , 10, 451-65		10
698	Nanofiber: Synthesis and biomedical applications. 2016 , 44, 111-21		105
697	. 2016 ,		3
696	Novel Multilayered Structures and Applications. 2016 , 190-220		1
695	Flexible Polyaniline/Poly(methyl methacrylate) Composite Fibers via Electrospinning and In Situ Polymerization for Ammonia Gas Sensing and Strain Sensing. 2016 , 2016, 1-8		9
694	Poly(lactic Acid) Based Nanocomposites: Promising Safe and Biodegradable Materials in Biomedical Field. 2016 , 2016, 1-11		63
693	Approaches to Peripheral Nerve Repair: Generations of Biomaterial Conduits Yielding to Replacing Autologous Nerve Grafts in Craniomaxillofacial Surgery. 2016 , 2016, 3856262		97
692	Three-dimensional culture and interaction of cancer cells and dendritic cells in an electrospun nano-submicron hybrid fibrous scaffold. 2016 , 11, 823-35		19

691	Electrospun Metal Oxide Nanofibers and Their Energy Applications. 2016 ,		1
690	Nanobiomaterials in endodontics. 2016 , 389-424		
689	Types of Biodegradable Polymers. 2016 , 81-151		11
688	Surface Modification of TiCP with Stearic Acid and Its Effects on TiCP/PLLA Biodegradable Composite Nanofibers. 2016 , 02,		0
687	Future Prospects for Scaffolding Methods and Biomaterials in Skin Tissue Engineering: A Review. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	269
686	Electrospun Scaffolds for Corneal Tissue Engineering: A Review. 2016 , 9,		63
685	Additive Manufacturing of Patient-Customizable Scaffolds for Tubular Tissues Using the Melt-Drawing Method. 2016 , 9,		11
684	Double Linear Gradient Biointerfaces for Determining Two-Parameter Dependent Stem Cell Behavior. 2016 , 2, 407-413		13
683	Current Status of Tissue-Engineered Scaffolds for Rotator Cuff Repair. 2016 , 31, 91-97		22
682	A review on electrospun polymer nanostructures as advanced bioactive platforms. <i>Polymer Engineering and Science</i> , 2016 , 56, 500-527	2.3	96
681	Poly(e-caprolactone)/gelatin composite electrospun scaffolds with porous crater-like structures for tissue engineering. 2016 , 104, 1017-29		51
680	Neural Engineering. 2016 ,		6
679	Polydopamine Inter-Fiber Networks: New Strategy for Producing Rigid, Sticky, 3D Fluffy Electrospun Fibrous Polycaprolactone Sponges. 2016 , 16, 824-35		14
678	Poly(lactic acid) fibers obtained by solution blow spinning: Effect of a greener solvent on the fiber diameter. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	20
677	Stem Cells, Bioengineering, and 3-D Scaffolds for Nervous System Repair and Regeneration. 2016 , 25-81		7
676	Nanofiber-Based Hydrocolloid from Colloid Electrospinning Toward Next Generation Wound Dressing. 2016 , 301, 818-826		30
675	Human Neural Tissue Construct Fabrication Based on Scaffold-Free Tissue Engineering. 2016 , 5, 1931-8		27
674	Differentiation of Human Mesenchymal Stem Cells Toward Quality Cartilage Using Fibrinogen-Based Nanofibers. 2016 , 16, 1348-59		14

673	Fabrication of nanofibrous tubular scaffolds for bone tissue engineering. 2016 , 182, 289-293		13
672	Multifunctional ternary drug-loaded electrospun scaffolds. <i>Journal of Applied Polymer Science</i> , 2016 , 133, n/a-n/a	2.9	9
671	Aligned Fibrillar Collagen Matrices. 2016 , 340-354		
670	Modulation of Stem Cells Behavior Through Bioactive Surfaces. 2016 , 67-86		1
669	Regenerative Strategies for the Central Nervous System. 2016 , 121-173		
668	Hybrid microscaffold-based 3D bioprinting of multi-cellular constructs with high compressive strength: A new biofabrication strategy. 2016 , 6, 39140		74
667	Innovations in Molecular Mechanisms and Tissue Engineering. 2016 ,		
666	Focal adhesion kinase regulation in stem cell alignment and spreading on nanofibers. 2016 , 473, 920-925		27
665	Neural stem cell neural differentiation in 3D extracellular matrix and endoplasmic reticulum stress microenvironment. 2016 , 6, 34959-34969		6
664	A hydrogel-forming liquid crystalline elastomer exhibiting soft shape memory. 2016 , 54, 38-52		31
663	Effect of electric field on the morphology and mechanical properties of electrospun fibers. 2016 , 6, 50666-50673		13
662	Silane crosslinking of electrospun poly (lactic acid)/nanocrystalline cellulose bionanocomposite. 2016 , 68, 397-405		22
661	Aligned PLLA nanofibrous scaffolds coated with graphene oxide for promoting neural cell growth. 2016 , 37, 131-42		180
660	Electrospun PCL/Gelatin composite fibrous scaffolds: mechanical properties and cellular responses. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2016 , 27, 824-38	3.5	67
659	From nano to micro: topographical scale and its impact on cell adhesion, morphology and contact guidance. 2016 , 28, 183001		158
658	2D imprinted substrates and 3D electrospun scaffolds revolutionize biomedicine. 2016 , 11, 989-92		11
657	Nanofibrous polylactide composite scaffolds with electroactivity and sustained release capacity for tissue engineering. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 2477-2485	7.3	31
656	Advances in peripheral nervous system regenerative therapeutic strategies: A biomaterials approach. 2016 , 65, 425-32		54

655	Fibrous scaffolds fabricated by emulsion electrospinning: from hosting capacity to in vivo biocompatibility. 2016 , 8, 9293-303		23
654	Improved cell infiltration and vascularization of three-dimensional bacterial cellulose nanofibrous scaffolds by template biosynthesis. 2016 , 6, 42229-42239		23
653	Bio-inspired nano tools for neuroscience. 2016 , 142, 1-22		35
652	Tissue engineering. 2016 , 387-455		8
651	Bioengineered cell culture systems of central nervous system injury and disease. 2016 , 21, 1456-1463		4
650	5. Selected applications of electrospun fibers and chemistry of corresponding polymers. 2016 , 128-172		
649	Surface functionalization of biomaterials by radical polymerization. 2016 , 83, 191-235		99
648	Fabrication of Aligned Conducting PPy-PLLA Fiber Films and Their Electrically Controlled Guidance and Orientation for Neurites. 2016 , 8, 12576-82		50
647	Synergistic effect of topography, surface chemistry and conductivity of the electrospun nanofibrous scaffold on cellular response of PC12 cells. 2016 , 145, 420-429		71
646	Enhancing cell infiltration of electrospun fibrous scaffolds in tissue regeneration. 2016 , 1, 56-64		151
645	Biomedical applications of electrospun polycaprolactone fiber mats. 2016 , 27, 1264-1273		62
644	A novel double-layer electrospun nanofibrous membrane sensor for detecting nitroaromatic compounds. 2016 , 51, 10350-10360		8
643	Effect of fiber diameter on surface morphology, mechanical property, and cell behavior of electrospun poly(E-caprolactone) mat. <i>Fibers and Polymers</i> , 2016 , 17, 1033-1042	2	66
642	Advances in electrospinning: The production and application of nanofibres and nanofibrous structures. 2016 , 48, 119-219		23
641	Mineralization of fibers for bone regeneration. 2016 , 443-476		2
640	Processing and surface modification of polymer nanofibers for biological scaffolds: a review. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 5958-5974	7-3	54
639	Oriented growth of rat Schwann cells on aligned electrospun poly(methyl methacrylate) nanofibers. 2016 , 369, 88-95		22
638	Regenerative endodontics--Creating new horizons. 2016 , 104, 676-85		16

637	Engineering-Aligned 3D Neural Circuit in Microfluidic Device. 2016 , 5, 159-66		50
636	Fabrication of poly(glycerol sebacate) fibrous membranes by coaxial electrospinning: Influence of shell and core solutions. 2016 , 63, 220-231		23
635	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
634	Highly aligned core-shell structured nanofibers for promoting phenotypic expression of vSMCs for vascular regeneration. 2016 , 8, 16307-16322		49
633	Recent Applications of Coaxial and Emulsion Electrospinning Methods in the Field of Tissue Engineering. 2016 , 5, 212-27		61
632	Use of electrospinning to construct biomaterials for peripheral nerve regeneration. 2016 , 27, 761-768		14
631	Development of Bioresorbable Hydrophilic-Hydrophobic Electrospun Scaffolds for Neural Tissue Engineering. 2016 , 17, 3172-3187		44
630	Fabrication of nanofibrous silkworm gland three-dimensional scaffold containing micro/nanoscale pores and study of its effects on adipose tissue-derived stem cell growth. 2016 , 51, 9267-9278		4
629	Application of polymeric nanofibers in medical designs, part II: Neural and cardiovascular tissues. 2016 , 65, 957-970		8
628	Fabrication and surface modification of poly lactic acid (PLA) scaffolds with epidermal growth factor for neural tissue engineering. 2016 , 6, e1231276		41
627	Electrospun Fibers Based on Biopolymers. 2016 , 385-438		2
626	Applications of nanobiopolymers for soft tissue engineering. 2016 , 83-109		1
625	Electrospun nanofiber SLIPS exhibiting high total transparency and scattering. 2016 , 6, 38018-38023		17
624	Nanofibrous bioengineered heart valve-Application in paediatric medicine. 2016 , 84, 1179-1188		16
623	A Controlled Design of Aligned and Random Nanofibers for 3D Bi-functionalized Nerve Conduits Fabricated via a Novel Electrospinning Set-up. 2016 , 6, 23761		113
622	Immobilization and delivery of biologically active Lipoxin A using electrospinning technology. 2016 , 515, 254-261		7
621	Tissue Engineering: Biomaterial Application. 2016 , 7901-7932		
620	Solvent-free thermocuring electrospinning to fabricate ultrathin polyurethane fibers with high conductivity by in situ polymerization of polyaniline. 2016 , 6, 106945-106950		13

619	Plasma Polymer Deposition: A Versatile Tool for Stem Cell Research. 2016 , 199-232	6
618	Preliminary In Vivo Evaluation of a Hybrid Armored Vascular Graft Combining Electrospinning and Additive Manufacturing Techniques. 2016 , 10, 1-7	18
617	Electrospinning of poly(lactic acid): Theoretical approach for the solvent selection to produce defect-free nanofibers. 2016 , 54, 1483-1498	42
616	Improved cell infiltration of electrospun nanofiber mats for layered tissue constructs. 2016 , 104, 1479-88	30
615	Drawing-fabrication of multifarious nanoplasmonic platform on PLLA paper for optimized SERS performance. 2016 , 47, 687-691	6
614	In pursuit of functional electrospun materials for clinical applications in humans. 2016 , 7, 387-409	28
613	Polymers, scaffolds and bioactive molecules with therapeutic properties in osteochondral pathologies: what's new?. 2016 , 26, 877-90	9
612	Physical and mechanical properties of PLA, and their functions in widespread applications - A comprehensive review. 2016 , 107, 367-392	1194
611	Effect of surface modification of nanofibres with glutamic acid peptide on calcium phosphate nucleation and osteogenic differentiation of marrow stromal cells. 2016 , 10, E132-46	34
610	Poly(lactides) co-electrospun with carbon nanotubes: thermal and cell culture properties. 2016 , 75, 565-576	9
609	Fabrication of polyvinylidene fluoride tree-like nanofiber via one-step electrospinning. 2016 , 92, 95-101	59
608	Electrospun Fibers for Spinal Cord Injury Research and Regeneration. 2016 , 33, 1405-15	61
607	A novel and facile approach to fabricate a conductive and biomimetic fibrous platform with sub-micron and micron features. <i>Journal of Materials Chemistry B</i> , 2016 , 4, 1056-1063	7-3 9
606	The control of cell orientation using biodegradable alginate fibers fabricated by near-field electrospinning. 2016 , 62, 879-87	37
605	Influence of oriented nanofibrous PCL scaffolds on quantitative gene expression during neural differentiation of mouse embryonic stem cells. 2016 , 104, 155-64	32
604	Composite film polarizer based on the oriented assembly of electrospun nanofibers. 2016 , 27, 135301	4
603	Weaving nanofibers by altering counter-electrode electrostatic signals. 2016 , 95, 67-72	5
602	Morphology and mechanical properties of PVA nanofibers spun by free surface electrospinning. 2016 , 73, 2761-2777	23

601	A simple method for fabrication of electrospun fibers with controlled degree of alignment having potential for nerve regeneration applications. 2016 , 63, 616-27	42
600	Remote Magnetic Orientation of 3D Collagen Hydrogels for Directed Neuronal Regeneration. 2016 , 16, 2567-73	161
599	Nanofibers of Elastin and Hydrophilic Segmented Polyurethane Solution Blends Show Enhanced Mechanical Properties through Intermolecular Protein-Polymer H Bonding. 2016 , 17, 1312-20	9
598	Fabrication and characterization of elastic hollow nanofibrous PU yarn. 2016 , 99, 328-334	20
597	Mechanotransduction of Neural Cells Through Cell-Substrate Interactions. 2016 , 22, 173-82	69
596	Gold Nanoparticle-Decorated Scaffolds Promote Neuronal Differentiation and Maturation. 2016 , 16, 2916-20	142
595	Poly(lactic acid) melt-spun fibers reinforced with functionalized cellulose nanocrystals. 2016 , 6, 9221-9231	51
594	The significance of electrospinning as a method to create fibrous scaffolds for biomedical engineering and drug delivery applications. 2016 , 31, 137-146	67
593	Electrospinning composite nanofibers of polyacrylonitrile/synthetic Na-montmorillonite. <i>Journal of Industrial and Engineering Chemistry</i> , 2016 , 35, 146-152	6.3 30
592	Flexible and transparent optically anisotropic films based on oriented assembly of nanofibers. 2016 , 4, 1029-1038	14
591	Electrochemical improvement due to alignment of carbon nanofibers fabricated by electrospinning as an electrode for supercapacitor. 2016 , 99, 607-618	70
590	In vivo tissue has non-linear rheological behavior distinct from 3D biomimetic hydrogels, as determined by AMOTIV microscopy. <i>Biomaterials</i> , 2016 , 83, 66-78	15.6 29
589	Reinforced electrospun PLLA fiber membrane via chemical crosslinking. 2016 , 74, 101-108	35
588	Electrospun silk fibroin/poly (lactic-co-glycolic acid) membrane for nerve tissue engineering. 2016 , 31, 208-224	9
587	In situ cross-linked electrospun fiber scaffold of collagen for fabricating cell-dense muscle tissue. 2016 , 19, 141-8	21
586	Polystyrene scaffolds based on microfibers as a bone substitute; development and in vitro study. 2016 , 29, 380-388	21
585	Bioengineered silk scaffolds in 3D tissue modeling with focus on mammary tissues. 2016 , 59, 1168-1180	28
584	Osteogenesis of human adipose-derived stem cells on poly(dopamine)-coated electrospun poly(lactic acid) fiber mats. 2016 , 58, 254-63	60

583	Development of biocomposites by a facile fiber spinning technique for nerve tissue engineering applications. 2016 , 46, 372-387	4
582	Forward Osmosis Membranes for Water Reclamation. 2016 , 45, 93-107	18
581	Functional Recovery of Carbon Nanotube/Nafion Nanocomposite in Rat Model of Spinal Cord Injury. 2016 , 44, 144-9	4
580	Fabrication of curcumin-loaded gum tragacanth/poly(vinyl alcohol) nanofibers with optimized electrospinning parameters. 2017 , 46, 1170-1192	41
579	Effects of multiwalled carbon nanotubes on electrospun poly(lactide-co-glycolide)-based nanocomposite scaffolds on neural cells proliferation. 2017 , 105, 934-943	9
578	Biomaterials for Enhancing CNS Repair. 2017 , 8, 57-64	20
577	Polymeric nanobiocomposites for biomedical applications. 2017 , 105, 1241-1259	23
576	Non-covalently crosslinked chitosan nanofibrous mats prepared by electrospinning as substrates for soft tissue regeneration. 2017 , 162, 82-92	35
575	Self-assembling peptide nanostructures on aligned poly(lactide-co-glycolide) nanofibers for the functional regeneration of sciatic nerve. 2017 , 12, 219-235	17
574	Preparation and properties of poly(lactic acid) melt spun fiber aligned and disordered scaffolds. 2017 , 192, 153-156	6
573	Poly (glycerol sebacate)-poly (ε-caprolactone) blend nanofibrous scaffold as intrinsic bio- and immunocompatible system for corneal repair. 2017 , 50, 370-380	52
572	Three-dimensional functional human neuronal networks in uncompressed low-density electrospun fiber scaffolds. 2017 , 13, 1563-1573	35
571	Neuroregeneration of Induced Pluripotent Stem Cells in Polyacrylamide-Chitosan Inverted Colloidal Crystal Scaffolds with Poly(lactide-co-glycolide) Nanoparticles and Transactivator of Transcription von Hippel-Lindau Peptide. 2017 , 23, 263-274	6
570	Influence of random and oriented electrospun fibrous poly(lactic-co-glycolic acid) scaffolds on neural differentiation of mouse embryonic stem cells. 2017 , 105, 1333-1345	30
569	Silk-based anisotropical 3D biotextiles for bone regeneration. <i>Biomaterials</i> , 2017 , 123, 92-106	15.6 37
568	Effect of collector design on the morphological properties of polycaprolactone electrospun fibers. 2017 , 193, 154-157	37
567	Mechanically Oriented 3D Collagen Hydrogel for Directing Neurite Growth. 2017 , 23, 403-414	50
566	6.17 Peripheral Nerve Regeneration ?. 2017 , 288-307	

565	Preparation, structural characterization, and in vitro cell studies of three-dimensional SiO-CaO binary glass scaffolds built of ultra-small nanofibers. 2017 , 76, 94-101		11
564	The electrochemical enhancement due to the aligned structural effect of carbon nanofibers in a supercapacitor electrode. 2017 , 226, 195-206		4
563	Impact of substrate geometry on electrospun fiber deposition and alignment. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	5
562	Heparin/collagen encapsulating nerve growth factor multilayers coated aligned PLLA nanofibrous scaffolds for nerve tissue engineering. 2017 , 105, 1900-1910		27
561	NeuronMaterial Nanointerfaces: Surface Nanotopography Governs Neuronal Differentiation and Development. 2017 , 3, 278-287		15
560	An introduction to the third dimension for routine cell culture. 2017 , 1-19		
559	High-resolution nanopatterning of biodegradable polylactide by thermal nanoimprint lithography using gas permeable mold. 2017 , 7, 035110		7
558	Draw-Spinning of Kilometer-Long and Highly Stretchable Polymer Submicrometer Fibers. 2017 , 4, 1600480		8
557	Dynamics of Branched Polymers in Random Layered Flows with Intramolecular Hydrodynamic Coupling: Star and Dendrimer. 2017 , 26, 1700009		1
556	Neural differentiation of human induced pluripotent stem cells on polycaprolactone/gelatin bi-electrospun nanofibers. 2017 , 78, 1195-1202		41
555	Mimetix [®] electrospun scaffold. 2017 , 284-302		
554	Biomaterials for Implants and Scaffolds. 2017 ,		3
553	Evaluation of protein adsorption onto a polyurethane nanofiber surface having different segment distributions. <i>Materials Chemistry and Physics</i> , 2017 , 187, 1-4	4.4	9
552	Preparation of elastomeric tree-like nanofiber membranes using thermoplastic polyurethane by one-step electrospinning. 2017 , 205, 190-193		10
551	Biophysical Regulation of Cell Behavior-Cross Talk between Substrate Stiffness and Nanotopography. 2017 , 3, 36-54		129
550	Guided differentiation and tissue regeneration of induced pluripotent stem cells using biomaterials. 2017 , 77, 41-53		10
549	Interactions of Neurons with Physical Environments. 2017 , 6, 1700267		46
548	AB-Miktoarm Glycopolymers and Their Interactions with Tenocytes. 2017 , 28, 1955-1964		16

547	Poly(l-lactide) melt spun fiber-aligned scaffolds coated with collagen or chitosan for guiding the directional migration of osteoblasts in vitro. <i>Journal of Materials Chemistry B</i> , 2017 , 5, 5176-5188	7.3	20
546	Microtube array membrane bioreactor promotes neuronal differentiation and orientation. <i>Biofabrication</i> , 2017 , 9, 025018	10.5	16
545	Biomaterials and cells for neural tissue engineering: Current choices. 2017 , 77, 1302-1315		109
544	Emerging Biofabrication Strategies for Engineering Complex Tissue Constructs. 2017 , 29, 1606061		209
543	Hybrid polymeric scaffolds prepared by micro and macro approaches. 2017 , 66, 853-860		5
542	Development of hybrid scaffolds with natural extracellular matrix deposited within synthetic polymeric fibers. 2017 , 105, 2162-2170		16
541	A review of evolution of electrospun tissue engineering scaffold: From two dimensions to three dimensions. 2017 , 231, 597-616		39
540	Construction of Small-Diameter Vascular Graft by Shape-Memory and Self-Rolling Bacterial Cellulose Membrane. 2017 , 6, 1601343		58
539	Electrospun Polymer Scaffolds: Their Biomedical and Mechanical Properties. 2017 , 237-270		1
538	Regenerative and Repair Strategies for the Central Nervous System. 2017 , 799-818		1
537	Self-Assembling Halloysite Nanotubes into Concentric Ring Patterns in a Sphere-on-Flat Geometry. 2017 , 33, 3088-3098		31
536	Influence of the structure of poly (L-lactic acid) electrospun fibers on the bioactivity of endothelial cells: proliferation and inflammatory cytokines expression. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2017 , 28, 323-335	3.5	5
535	3D Fabrication of Polymeric Scaffolds for Regenerative Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1175-1194	5.5	78
534	Cellulose Nanofiber Alignment Using Evaporation-Induced Droplet-Casting, and Cell Alignment on Aligned Nanocellulose Surfaces. 2017 , 18, 3936-3953		24
533	Synergetic stimulation of nanostructure and chemistry cues on behaviors of fibroblasts and endothelial cells. 2017 , 160, 500-509		6
532	Functional and Biomimetic Materials for Engineering of the Three-Dimensional Cell Microenvironment. 2017 , 117, 12764-12850		408
531	A cell-laden hybrid fiber/hydrogel composite for ligament regeneration with improved cell delivery and infiltration. 2017 , 12, 055010		14
530	The combined strategy of mesenchymal stem cells and tissue-engineered scaffolds for spinal cord injury regeneration. 2017 , 14, 3355-3368		20

529	An Effective Cell Coculture Platform Based on the Electrospun Microtube Array Membrane for Nerve Regeneration. 2017 , 204, 179-190	8
528	Influence of carbonization temperature and press processing on the electrochemical characteristics of self-standing iron oxide/carbon composite electrospun nanofibers. 2017 , 7, 32812-32818	11
527	A 2.5D approach to the mechanics of electrospun fibre mats. 2017 , 13, 6407-6421	23
526	Development of Nanofiber Sponges-Containing Nerve Guidance Conduit for Peripheral Nerve Regeneration in Vivo. 2017 , 9, 26684-26696	58
525	Keratin-Based Materials in Biotechnology. 2017 , 271-288	2
524	The need for advanced three-dimensional neural models and developing enabling technologies. 2017 , 7, 309-319	6
523	Secondary Metabolite Production from Industrially Relevant Bacteria is Enhanced by Organic Nanofibers. 2017 , 12, 1700313	3
522	Nanofibrous polysulfone/TiO ₂ nanocomposites: Surface properties and their relation with E. coli adhesion. 2017 , 55, 1575-1584	11
521	Rotary jet spinning review & potential high yield future for polymer nanofibers. 2017 , 3, 97-121	59
520	Engineering Nanobiomaterials for Improved Tissue Regeneration. 2017 , 281-304	1
519	Polymeric Nanobiomaterials. 2017 , 65-84	
518	Carbon-Based Nanobiomaterials. 2017 , 85-104	1
517	Electrospraying and Electrospinning for Nanobiomaterial Fabrication. 2017 , 143-163	3
516	Nanopatterning Techniques. 2017 , 189-210	2
515	Nanotopography-based strategy for the precise manipulation of osteoimmunomodulation in bone regeneration. 2017 , 9, 18129-18152	77
514	Designing Biodegradable PHA-Based 3D Scaffolds with Antibiofilm Properties for Wound Dressings: Optimization of the Microstructure/Nanostructure. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 3654-3661	5.5 18
513	Eumelanin Coated PLA Electrospun Micro Fibers as Bioinspired Cradle for SH-SY5Y Neuroblastoma Cells Growth and Maturation. 2017 , 9, 40070-40076	14
512	Effect of the surface topography and chemistry of poly(3-hydroxybutyrate) substrates on cellular behavior of the murine neuroblastoma Neuro2a cell line. 2017 , 74, 4101-4118	14

511	Random lasing from structurally-modulated silk fibroin nanofibers. 2017 , 7, 4506		12
510	Nuclei deformation in HaCaT keratinocytes cultivated on aligned fibrous substrates. 2017 , 72, 85-90		3
509	3D Near-Field Electrospinning of Biomaterial Microfibers with Potential for Blended Microfiber-Cell-Loaded Gel Composite Structures. 2017 , 6, 1700456		37
508	Injectable biomaterials for stem cell delivery and tissue regeneration. 2017 , 17, 49-62		22
507	Patterning Electrospun Nanofibers via Agarose Hydrogel Stamps to Spatially Coordinate Cell Orientation in Microfluidic Device. 2017 , 13, 1602610		20
506	Electrospinning versus microfluidic spinning of functional fibers for biomedical applications. <i>Biomaterials</i> , 2017 , 114, 121-143	15.6	222
505	Electroactive nanostructured scaffold produced by controlled deposition of PPy on electrospun PCL fibres. 2017 , 43, 1235-1251		28
504	Effect of polyvinylidene fluoride electrospun fiber orientation on neural stem cell differentiation. 2017 , 105, 2376-2393		50
503	Influence of Nonsulfated Polysaccharides on the Properties of Electrospun Poly(lactic--glycolic acid) Fibers. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1304-1312	5.5	8
502	Evaluation of Extracted Chitosan from <i>Portunus Pelagicus</i> for the Preparation of Chitosan Alginate Blend Scaffolds. 2017 , 25, 578-585		5
501	Electrospun nanofibers. 2017 , 267-300		10
500	Aligned poly (glycolide-lactide) fiber membranes with conducting polypyrrole. 2017 , 28, 484-490		5
499	Hierarchical As-Electrospun Self-Assembled Fibrous Scaffolds Deconvolute Impacts of Chemically Defined Extracellular Matrix- and Cell Adhesion-Type Interactions on Stem Cell Haptokinesis. 2017 , 6, 1420-1425		6
498	Electrospun Collagen Scaffolds. 2017 , 21-55		3
497	Membrane Technology for Human Health. 2017 , 14, 43-59		
496	Fabrication and Characterization of Fe/Polyurethane Nanofiber Actuator Prepared by Electrospinning. 2017 , 73, 135-138		4
495	Geometrical characterization of electrospun nanofibers. 2017 , 151-180		4
494	Calcium Silicate/Chitosan-Coated Electrospun Poly (Lactic Acid) Fibers for Bone Tissue Engineering. 2017 , 10,		21

493	Stroke Management: An Emerging Role of Nanotechnology. 2017 , 8,	28
492	Electrospun nanofibrous tissue scaffolds. 2017 , 521-550	2
491	Improving fiber alignment during electrospinning. 2017 , 125-147	22
490	Porous scaffolds. 2017 , 27-59	3
489	Electrospun scaffolds for neural tissue engineering. 2017 , 299-320	4
488	Tissue Engineering. 2017 ,	6
487	Plasma polymerised poly(methyl methacrylate) and cyclopropylamine films on polylactic acid nanofibres by electrospinning. 2017 , 14, 977	1
486	PLA-Based Hybrid and Composite Electrospun Fibrous Scaffolds as Potential Materials for Tissue Engineering. 2017 , 2017, 1-11	22
485	Nanocarbons in Electrospun Polymeric Nanomats for Tissue Engineering: A Review. <i>Polymers</i> , 2017 , 9,	4.5 63
484	4.22 Engineering the Biophysical Properties of Basement Membranes Into Biomaterials: Fabrication and Effects on Cell Behavior. 2017 , 404-429	0
483	Neurotrophic support by traumatized muscle-derived multipotent progenitor cells: Role of endothelial cells and Vascular Endothelial Growth Factor-A. 2017 , 8, 226	11
482	Electrospun Hydroxyapatite Containing Polyvinyl Alcohol Nanofibers Doped with Nanogold for Bone Tissue Engineering. 2017 , 66, 96-100	8
481	4.12 Membrane Approaches for Liver and Neuronal Tissue Engineering. 2017 , 248-271	
480	High-resolution imaging techniques in tissue engineering. 2017 , 151-180	3
479	Electrospinning and surface modification methods for functionalized cell scaffolds. 2017 , 201-225	4
478	Micro- and Nanosurface Patterning Technologies. 2017 , 375-390	2
477	Controlling the Outgrowth and Functions of Neural Stem Cells: The Effect of Surface Topography. 2018 , 19, 1143-1163	28
476	Aligned electrospun fibers for neural patterning. 2018 , 40, 601-607	14

475	Recent advances in brain tumor therapy: application of electrospun nanofibers. 2018 , 23, 912-919	24
474	Highly sensitive and rapid biosensing on a three-dimensional polymer platform. 2018 , 50, 847-855	1
473	Human Amniotic Membrane with Aligned Electrospun Fiber as Scaffold for Aligned Tissue Regeneration. 2018 , 24, 368-378	21
472	Photolithographic-stereolithographic-tandem fabrication of 4D smart scaffolds for improved stem cell cardiomyogenic differentiation. <i>Biofabrication</i> , 2018 , 10, 035007	10.5 57
471	Electrically polarized PLLA nanofibers as neural tissue engineering scaffolds with improved neuritogenesis. 2018 , 167, 93-103	21
470	Synthesis of aligned titanium-based oxide fibre arrays. 2018 , 44, 12149-12156	2
469	Aligned laminin core-polydioxanone/collagen shell fiber matrices effective for neuritogenesis. 2018 , 8, 5570	18
468	The Evolution of Polystyrene as a Cell Culture Material. 2018 , 24, 359-372	99
467	Properties-morphology relationships in electrospun mats based on polylactic acid and graphene nanoplatelets. 2018 , 108, 23-29	23
466	Anisotropic architecture and electrical stimulation enhance neuron cell behaviour on a tough graphene embedded PVA: alginate fibrous scaffold.. 2018 , 8, 6381-6389	29
465	Nanotopography regulates motor neuron differentiation of human pluripotent stem cells. 2018 , 10, 3556-3565	26
464	Nano/Micro-Structured Materials for Energy and Biomedical Applications. 2018 ,	2
463	Gold nano-decorated aligned polyurethane nanofibers for enhancement of neurite outgrowth and elongation. 2018 , 106, 1604-1613	17
462	Nanostructured Materials in Tissue Engineering. 2018 , 255-290	1
461	Near-infrared laser scanning confocal microscopy and its application in bioimaging. 2018 , 50, 1	3
460	Biomimetic Architectures for Peripheral Nerve Repair: A Review of Biofabrication Strategies. 2018 , 7, e1701164	64
459	Oriented Nanofibrous Polymer Scaffolds Containing Protein-Loaded Porous Silicon Generated by Spray Nebulization. 2018 , 30, e1706785	28
458	Facile Strategy to Generate Aligned Polymer Nanofibers: Effects on Cell Adhesion. 2018 , 10, 1566-1574	19

457	Controlled Release of Growth Factors from Multilayered Fibrous Scaffold for Functional Recoveries in Crushed Sciatic Nerve. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 576-586	5.5	31
456	Recent studies on electrospinning preparation of patterned, core-shell, and aligned scaffolds. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46570	2.9	17
455	Nanoscale Resolution 3D Printing with Pin-Modified Electrified Inkjets for Tailorable Nano/Macrohybrid Constructs for Tissue Engineering. 2018 , 10, 12390-12405		22
454	Photoresponsive fiber scaffolds with a core-sheath nanostructure for regulating cell behaviors. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 2052-2056	7.3	6
453	Enhanced chondrogenic differentiation of human bone marrow mesenchymal stem cells on PCL/PLGA electrospun with different alignments and compositions. 2018 , 67, 50-60		15
452	Fabrication of a mechanically anisotropic poly(glycerol sebacate) membrane for tissue engineering. 2018 , 106, 760-770		14
451	Evaluation of Extracted Chitosan From <i>Loligo duvauceli</i> for the Preparation of Tissue Engineering Scaffolds. 2018 , 26, 1231-1238		4
450	Hydroxyapatite-polymer biocomposites for bone regeneration: A review of current trends. 2018 , 106, 2046-2057		132
449	Organic Electrodes and Communications with Excitable Cells. 2018 , 28, 1700587		33
448	An epigenetic bioactive composite scaffold with well-aligned nanofibers for functional tendon tissue engineering. 2018 , 66, 141-156		51
447	When stem cells meet graphene: Opportunities and challenges in regenerative medicine. <i>Biomaterials</i> , 2018 , 155, 236-250	15.6	181
446	Triggered release of hexanal from an imidazolidine precursor encapsulated in poly(lactic acid) and ethylcellulose carriers. 2018 , 53, 2221-2235		24
445	Continuous enzymatic synthesis of polycaprolactone in packed bed reactor using pressurized fluids. 2018 , 175, 139-147		12
444	Facile modification of electrospun fibrous structures with antifouling zwitterionic hydrogels. 2017 , 13, 015021		5
443	A review on mechanical considerations for chronically-implanted neural probes. 2018 , 15, 031001		82
442	Fabrication Aspects of Porous Biomaterials in Orthopedic Applications: A Review. <i>ACS Biomaterials Science and Engineering</i> , 2018 , 4, 1-39	5.5	86
441	Template-based fabrication of nanoporous metals. 2018 , 33, 2-15		20
440	2D Material-Based Nanofibrous Membrane for Photothermal Cancer Therapy. 2018 , 10, 1155-1163		22

439	Characterization of poly(lactic acid) melt spun fiber aligned scaffolds prepared with hot pressing method. 2018 , 214, 178-181	7
438	Modulation of scar tissue formation in injured nervous tissue cultivated on surface-engineered coralline scaffolds. 2018 , 106, 2295-2306	5
437	The influence of electrospinning parameters on polydioxanone scaffold properties. 2018 , 4, 025023	2
436	Functional polymer surfaces for controlling cell behaviors. 2018 , 21, 38-59	172
435	Fibrous polymer nanomaterials for biomedical applications and their transport by fluids: an overview. 2018 , 14, 8421-8444	10
434	Nanoimprinted Anisotropic Topography Preferentially Guides Axons and Enhances Nerve Regeneration. 2018 , 18, e1800335	16
433	Biomechanics in Oncology. 2018 ,	3
432	Regulating Nonviable Tissue. 2018 ,	
431	Enhancing the Cell Growth Using Conductive Scaffolds. 2018 , 09,	5
430	Electrospun nerve guide conduits have the potential to bridge peripheral nerve injuries in vivo. 2018 , 8, 16716	37
429	Microenvironments Designed to Support Growth and Function of Neuronal Cells. 2018 , 5,	28
428	Research Progress of the Types and Preparation Techniques of Scaffold Materials in Cartilage Tissue Engineering. 2018 , 13, 583-590	11
427	Biological effects different diameters of Tussah silk fibroin nanofibers on olfactory ensheathing cells. 2019 , 17, 123-130	4
426	Micropatterned Cell Orientation of Cyanobacterial Liquid-Crystalline Hydrogels. 2018 , 10, 44834-44843	6
425	Electroactive Scaffolds for Neurogenesis and Myogenesis: Graphene-Based Nanomaterials. 2018 , 14, e1801983	57
424	Harnessing Nanotopography of Electrospun Nanofibrous Nerve Guide Conduits (NGCs) for Neural Tissue Engineering. 2018 , 1078, 395-408	7
423	Nanopatterned Scaffolds for Neural Tissue Engineering and Regenerative Medicine. 2018 , 1078, 421-443	10
422	Preparation and Characterization of Biocompatible Electrospun Nanofiber Scaffolds. 2018 , 62,	6

421	New Insight into Gap Electrospinning: Toward Meter-long Aligned Nanofibers. 2018 , 34, 13788-13793	24
420	Tuning Fiber Alignment to Achieve Mechanical Anisotropy on Polymeric Electrospun Scaffolds for Cardiovascular Tissue Engineering. 2018 , 07,	2
419	Hybrid scaffolds enhanced by nanofibers improve in vitro cell behavior for tissue regeneration. 2018 , 25, 7113-7125	5
418	Design of Fiber Networks for Studying Metastatic Invasion. 2018 , 1092, 289-318	1
417	Controlled Arrangement of Neuronal Cells on Surfaces Functionalized with Micropatterned Polymer Brushes. 2018 , 3, 12383-12391	12
416	Review of the fabrication techniques and applications of polymeric electrospun nanofibers for drug delivery systems. 2018 , 48, 82-87	54
415	Electrospinning based all-nano composite materials: Recent achievements and perspectives. 2018 , 10, 140-150	45
414	Advances in tissue regeneration through nanomaterials. 2018 , 153-162	1
413	The Place of Electrospinning in Separation Science and Biomedical Engineering. 2018 ,	
412	Enhancement of biocompatibility on aligned electrospun poly(3-hydroxybutyrate) scaffold immobilized with laminin towards murine neuroblastoma Neuro2a cell line and rat brain-derived neural stem cells (mNSCs). 2018 , 29, 2050-2063	10
411	Polypyrrole increases branching and neurite extension by Neuro2A cells on PBAT ultrathin fibers. 2018 , 14, 1753-1763	13
410	Novel Conducting and Biodegradable Copolymers with Noncytotoxic Properties toward Embryonic Stem Cells. 2018 , 3, 5593-5604	22
409	An in vitro study of non-aligned or aligned electrospun poly(methyl methacrylate) nanofibers as primary rat astrocytes-loading scaffold. 2018 , 91, 228-235	15
408	Allotropic carbon (graphene oxide and reduced graphene oxide) based biomaterials for neural regeneration. 2018 , 6, 120-129	19
407	Activated release of bioactive aldehydes from their precursors embedded in electrospun poly(lactic acid) nonwovens.. 2018 , 8, 19930-19938	12
406	Incorporation of nanoparticles into transplantable decellularized matrices: Applications and challenges. 2018 , 41, 421-430	7
405	Degradation Behavior of Electrospun PLA and PLA/CNT Nanofibres in Aqueous Environment. 2018 , 2018, 1-15	12
404	Cell Alignment on Graphene/Amyloid Composites. 2018 , 5, 1800621	7

403	The cellular response of nerve cells on poly-L-lysine coated PLGA-MWCNTs aligned nanofibers under electrical stimulation. 2018 , 91, 715-726		52
402	Electrospun Antimicrobial Wound Dressings: Novel Strategies to Fight Against Wound Infections. 2018 , 213-253		3
401	Preparation of Vitamin C doped polymers for physical characteristics using electrospinning process. 2018 ,		
400	Modeling Microenvironmental Regulation of Glioblastoma Stem Cells: A Biomaterials Perspective. 2018 , 5,		14
399	The promoting effect on pre-osteoblast growth under electrical and magnetic double stimulation based on PEDOT/FeO/PLGA magnetic-conductive bi-functional scaffolds. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 4952-4962	7.3	24
398	3D bioprinting nerve. 2018 , 355-366		1
397	Modulation of the mechanical, physical and chemical properties of polyvinylidene fluoride scaffold via non-solvent induced phase separation process for nerve tissue engineering applications. 2018 , 104, 115-127		25
396	Bibliography. 2018 , 161-175		
395	Functional Nanofibers with Multiscale Structure by Electrospinning. 2018 , 4, 17-31		11
394	Engineering of M13 Bacteriophage for Development of Tissue Engineering Materials. 2018 , 1776, 487-502		3
393	Accelerated neural differentiation of mouse embryonic stem cells on aligned GYIGSR-functionalized nanofibers. 2018 , 75, 129-139		27
392	Applications of Nanotechnology for Regenerative Medicine; Healing Tissues at the Nanoscale. 2019 , 485-504		11
391	Advances in Nanotechnology Based Functional, Smart and Intelligent Textiles: A Review. 2019 , 253-290		18
390	Advances in ex vivo models and lab-on-a-chip devices for neural tissue engineering. <i>Biomaterials</i> , 2019 , 198, 146-166	15.6	31
389	Nanofibers as new-generation materials: From spinning and nano-spinning fabrication techniques to emerging applications. 2019 , 17, 1-35		166
388	Tailoring synthetic polymeric biomaterials towards nerve tissue engineering: a review. 2019 , 47, 3524-3539		48
387	Patterning and process parameter effects in 3D suspension near-field electrospinning of nanoarrays. 2019 , 30, 495301		6
386	SIS/aligned fibre scaffold designed to meet layered oesophageal tissue complexity and properties. 2019 , 99, 181-195		17

385	An integrated approach to develop engineered metal composite bone scaffold with controlled degradation. 2019 , 34, 858-866	4
384	Engineering biomaterial microenvironments to promote myelination in the central nervous system. 2019 , 152, 159-174	10
383	Synthetic scaffolds for musculoskeletal tissue engineering: cellular responses to fiber parameters. 2019 , 4, 15	75
382	Hierarchical and Spiral Polymer Structures: Direct Electrospinning on Porous Anodic Aluminum Oxide Templates. 2019 , 220, 1900169	1
381	Crystal-to-Crystal Transition and the Structure Development of Electrospun Poly(ethylene 2,6 naphthalate) (PEN) Nanofibers from Solution. 2019 , 123, 5954-5961	1
380	Proton-conducting amino acid-modified chitosan nanofibers for nanocomposite proton exchange membranes. 2019 , 119, 327-334	14
379	Coaxial Electrospinning Formation of Complex Polymer Fibers and their Applications. 2019 , 84, 1453-1497	91
378	Self-assembled collagen fibrils from the swim bladder of Bester sturgeon enable alignment of MC3T3-E1 cells and enhance osteogenic differentiation. 2019 , 104, 109925	7
377	Aligned conductive core-shell biomimetic scaffolds based on nanofiber yarns/hydrogel for enhanced 3D neurite outgrowth alignment and elongation. 2019 , 96, 175-187	93
376	New surgical meshes with patterned nanofiber mats.. 2019 , 9, 17679-17690	4
375	Glycosaminoglycan functionalization of electrospun scaffolds enhances Schwann cell activity. 2019 , 96, 188-202	17
374	Superhydrophobic Porous PLLA Sponges with Hierarchical Micro-/Nano-Structures for High-Efficiency Self-Cleaning. 2019 , 220, 1900338	5
373	Approach to Obtain Electrospun Hydrophilic Fibers and Prevent Fiber Necking. 2019 , 304, 1900565	1
372	Nanotechnology in regenerative ophthalmology. 2019 , 148, 290-307	18
371	The future application of nanomedicine and biomimicry in plastic and reconstructive surgery. 2019 , 14, 2679-2696	4
370	Processing Methods for Bionanocomposites. 2019 , 25-55	1
369	Vastly extended drug release from poly(pro-17Estradiol) materials facilitates in vitro neurotrophism and neuroprotection. 2019 , 10, 4830	14
368	Preparation of collagen/carboxylated graphene oxide nanofibrous membranes by electrospinning and their hemocompatibilities. 2019 , 6, 105415	2

367	Embedding Non-Local Mean in Squeeze-and-Excitation Network for Single Image Deraining. 2019 ,		3
366	Therapeutic Potential of Neurotrophins for Repair After Brain Injury: A Helping Hand From Biomaterials. <i>Frontiers in Neuroscience</i> , 2019 , 13, 790	5.1	50
365	Mechanical properties of medical textiles. 2019 , 301-340		0
364	Electrospinning as a Versatile Method of Composite Thin Films Fabrication for Selected Applications. 2019 , 293, 35-49		4
363	Biomimetic Polymer-Based Engineered Scaffolds for Improved Stem Cell Function. 2019 , 12,		11
362	A review on fabrication of nanofibers via electrospinning and their applications. 2019 , 1, 1		63
361	Use of Aligned Microscale Sacrificial Fibers in Creating Biomimetic, Anisotropic Poly(glycerol sebacate) Scaffolds. <i>Polymers</i> , 2019 , 11,	4.5	5
360	Hybrid Carbon Nanostructures for Direct Neuronal Interfacing. 2019 , 6,		1
359	A direct 3D suspension near-field electrospinning technique for the fabrication of polymer nanoarrays. 2019 , 30, 195301		4
358	The fabrication of uniaxially aligned micro-textured polycaprolactone struts and application for skeletal muscle tissue regeneration. <i>Biofabrication</i> , 2019 , 11, 025005	10.5	12
357	Self-assembly of electrospun nanofibers into gradient honeycomb structures. 2019 , 168, 107614		26
356	Electrospun Filaments Embedding Bioactive Glass Particles with Ion Release and Enhanced Mineralization. 2019 , 9,		10
355	Preparation and characterization of β -lactoglobulin/poly(ethylene oxide) magnetic nanofibers for biomedical applications. 2019 , 576, 63-72		13
354	Highly aligned and geometrically structured poly(glycerol sebacate)-polyethylene oxide composite fiber matrices towards bioscaffolding applications. 2019 , 21, 53		6
353	In Situ Magnetic Alignment and Cross-Linking of Injectable Microparticles into Centimeter-Scale Fibers for Efficient Myoblast Alignment and in Vivo Fiber Formation. 2019 , 31, 5181-5189		4
352	Development of mussel-inspired 3D-printed poly (lactic acid) scaffold grafted with bone morphogenetic protein-2 for stimulating osteogenesis. 2019 , 30, 78		24
351	Scaffolds for bladder tissue engineering. 2019 , 493-548		
350	Solution Formulation and Rheology for Fabricating Extracellular Matrix-Derived Fibers Using Low-Voltage Electrospinning Patterning. <i>ACS Biomaterials Science and Engineering</i> , 2019 , 5, 3676-3684	5.5	7

349	Controlling Cell Behavior through the Design of Biomaterial Surfaces: A Focus on Surface Modification Techniques. 2019 , 6, 1900572		143
348	Advances in Conducting, Biodegradable and Biocompatible Copolymers for Biomedical Applications. 2019 , 6,		27
347	Nanoengineered biomaterials for diaphragm regeneration. 2019 , 345-362		1
346	Nano-featured poly (lactide-co-glycolide)-graphene microribbons as a promising substrate for nerve tissue engineering. 2019 , 173, 106863		18
345	Promoting Neurite Growth and Schwann Cell Migration by the Harnessing Decellularized Nerve Matrix onto Nanofibrous Guidance. 2019 , 11, 17167-17176		18
344	4D anisotropic skeletal muscle tissue constructs fabricated by staircase effect strategy. <i>Biofabrication</i> , 2019 , 11, 035030	10.5	26
343	Electrospinning of highly porous yet mechanically functional microfibrillar scaffolds at the human scale for ligament and tendon tissue engineering. 2019 , 14, 035016		23
342	Self-Powered Well-Aligned P(VDF-TrFE) Piezoelectric Nanofiber Nanogenerator for Modulating an Exact Electrical Stimulation and Enhancing the Proliferation of Preosteoblasts. 2019 , 9,		23
341	Chitosan-based asymmetric topological membranes with cell-like features for healthcare applications. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2634-2642	7.3	7
340	Design of polyurethane fibers: Relation between the spinning technique and the resulting fiber topology. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47706	2.9	9
339	Particulate systems of PLA and its copolymers. 2019 , 349-380		1
338	Fabrication of Chitosan/Polypyrrole-coated poly(L-lactic acid)/Polycaprolactone aligned fibre films for enhancement of neural cell compatibility and neurite growth. 2019 , 52, e12588		21
337	Shape-Memory Nanofiber Meshes with Programmable Cell Orientation. 2019 , 7, 20		12
336	Nanofibers for Biomedical and Healthcare Applications. 2019 , 19, e1800256		115
335	RGD-Functionalized Nanofibers Increase Early GFAP Expression during Neural Differentiation of Mouse Embryonic Stem Cells. 2019 , 20, 1443-1454		14
334	Bioinspired scaffold induced regeneration of neural tissue. 2019 , 114, 98-108		15
333	Bio-functional electrospun nanomaterials: From topology design to biological applications. 2019 , 91, 1-28		63
332	Biomechanical characterization of a novel collagen-hyaluronan infused 3D-printed polymeric device for partial meniscus replacement. 2019 , 107, 2457-2465		20

331	Characterization and in vitro evaluation of electrospun aligned-fiber membranes of poly(L-co-D,L-lactic acid). <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47657	2.9	4
330	Macroporous nanofiber wraps promote axonal regeneration and functional recovery in nerve repair by limiting fibrosis. 2019 , 88, 332-345		21
329	Preparation of aligned poly(glycerol sebacate) fibrous membranes for anisotropic tissue engineering. 2019 , 100, 30-37		17
328	The effect of nanoscale surface electrical properties of partially biodegradable PEDOT-co-PDLLA conducting polymers on protein adhesion investigated by atomic force microscopy. 2019 , 99, 468-478		8
327	7. Natural nanofibers and applications. 2019 , 157-188		1
326	Growth of Nerve Cells Induced by Diverse Nanopillar Arrays. 2019 ,		
325	Evaluation of human dental stem cell growth characteristics and cellular morphological changes in response to extracellular matrix nanotopography. 2019 ,		
324	A novel polycaprolactone/carbon nanofiber composite as a conductive neural guidance channel: an in vitro and in vivo study. 2019 , 8, 239-248		20
323	Influence of PLLA/PCL/HA Scaffold Fiber Orientation on Mechanical Properties and Osteoblast Behavior. 2019 , 12,		14
322	Electrospun Poly (Aspartic Acid)-Modified Zein Nanofibers for Promoting Bone Regeneration. 2019 , 14, 9497-9512		5
321	Vision impairment after traumatic brain injury: present knowledge and future directions. 2019 , 30, 305-315		7
320	The effect of collector type on the physical, chemical, and biological properties of polycaprolactone/gelatin/nano-hydroxyapatite electrospun scaffold. 2019 , 107, 933-950		32
319	Devising micro/nano-architectures in multi-channel nerve conduits towards a pro-regenerative matrix for the repair of spinal cord injury. 2019 , 86, 194-206		27
318	Recent advances in nanotherapeutic strategies for spinal cord injury repair. 2019 , 148, 38-59		37
317	Nanolayer coextrusion: An efficient and environmentally friendly micro/nanofiber fabrication technique. 2019 , 95, 292-301		12
316	The multiscale stiffness of electrospun substrates and aspects of their mechanical biocompatibility. 2019 , 84, 146-158		9
315	Correlation between nanodispersion of organo-modified nanodiamond in solvent and condensed behavior of their organized particle films. 2019 , 562, 416-430		7
314	Imaging human keratinocytes grown on electrospun mats by scanning electron microscopy. 2019 , 82, 544-549		3

313	Regenerative Engineering in the Field of Orthopedic Surgery. 2019 , 201-213	
312	The influence of the stiffness of GelMA substrate on the outgrowth of PC12 cells. 2019 , 39,	38
311	Electrospun polymer biomaterials. 2019 , 90, 1-34	303
310	Nanoengineered biomaterials for bridging gaps in damaged nerve tissue. 2019 , 187-214	4
309	Thermoresponsive Drug Delivery Systems, Characterization and Application. 2019 , 133-155	9
308	Nanoengineered biomaterials for spinal cord regeneration. 2019 , 167-185	4
307	Effects of GO and rGO incorporated nanofibrous scaffolds on the proliferation of Schwann cells. 2019 , 5, 025002	4
306	Electrospinning production of nanofibrous membranes. 2019 , 17, 767-800	45
305	Matrices, scaffolds & carriers for cell delivery in nerve regeneration. 2019 , 319, 112837	34
304	Articular cartilage: New directions and barriers of scaffolds development [review]. 2019 , 68, 396-410	13
303	A multilayer scaffold design with spatial arrangement of cells to modulate esophageal tissue growth. 2019 , 107, 324-331	12
302	Characterization of designed directional polylactic acid 3D scaffolds for neural differentiation of human dental pulp stem cells. 2020 , 119, 268-275	8
301	Anchoring resveratrol on surface of electrospun star-shaped PCL-COOH/PLLA fibers. 2020 , 69, 739-747	3
300	Synthesis of polyorganophosphazenes and fabrication of their blend microspheres and micro/nanofibers as drug delivery systems. 2020 , 69, 545-566	2
299	Development of highly porous, Electrostatic force assisted nanofiber fabrication for biological applications. 2020 , 69, 477-504	9
298	Effect of hydroxyapatite concentration and size on morpho-mechanical properties of PLA-based randomly oriented and aligned electrospun nanofibrous mats. 2020 , 101, 103449	30
297	Fiber Scaffold Patterning for Mending Hearts: 3D Organization Bringing the Next Step. 2020 , 9, e1900775	15
296	Development of heparin-conjugated nanofibers and a novel biological signal by immobilized growth factors for peripheral nerve regeneration. 2020 , 129, 354-362	10

295	Fabrication of extracellular matrix-coated conductive polypyrrole-poly(l-lactide) fiber-films and their synergistic effect with (nerve growth factor)/(epidermal growth factor) on neurites growth. 2020 , 31, 1141-1146		2
294	A step toward engineering thick tissues: Distributing microfibers within 3D printed frames. 2020 , 108, 581-591		4
293	Fabrication, physical characterizations and in vitro antibacterial activity of cefadroxil-loaded chitosan/poly(vinyl alcohol) nanofibers against Staphylococcus aureus clinical isolates. 2020 , 144, 921-931		36
292	Fabrication of porous fibers via electrospinning: strategies and applications. 2020 , 60, 595-647		29
291	Potential Applications of Nanofibers in Beverage Industry. 2020 , 333-368		3
290	Enhanced neuronal differentiation of neural stem cells with mechanically enhanced touch-spun nanofibrous scaffolds. 2020 , 24, 102152		10
289	Biomimetic composite scaffolds based on surface modification of polydopamine on ultrasonication induced cellulose nanofibrils (CNF) adsorbing onto electrospun thermoplastic polyurethane (TPU) nanofibers. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 561-577	3.5	17
288	Shear-Induced Microstructural Variations in Nanoemulsion-Laden Organohydrogel Fibers. 2020 , 2, 594-603		4
287	Improved control over polymer nanofiber deposition with a programmable 3-axis electrospinning apparatus. 2020 , 103, 103406		4
286	Tissue engineering with electrospun electro-responsive chitosan-aniline oligomer/polyvinyl alcohol. 2020 , 147, 160-169		40
285	Characterization of extracellular matrix modified poly(ϵ -caprolactone) electrospun scaffolds with differing fiber orientations for corneal stroma regeneration. 2020 , 108, 110415		34
284	Electrospun natural polymer and its composite nanofibrous scaffolds for nerve tissue engineering. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2020 , 31, 519-548	3.5	14
283	Tuning the three-dimensional architecture of supercritical CO foamed PCL scaffolds by a novel mould patterning approach. 2020 , 109, 110518		12
282	Regenerative medicine and drug delivery: Progress via electrospun biomaterials. 2020 , 109, 110521		41
281	Development of an Anisotropically Organized Brain dECM Hydrogel-Based 3D Neuronal Culture Platform for Recapitulating the Brain Microenvironment in Vivo. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 610-620	5.5	11
280	Repositioning -Acetylcysteine (NAC): NAC-Loaded Electrospun Drug Delivery Scaffolding for Potential Neural Tissue Engineering Application. 2020 , 12,		4
279	Polymeric Guide Conduits for Peripheral Nerve Tissue Engineering. 2020 , 8, 582646		19
278	Three Dimensional Quercetin-Functionalized Patterned Scaffold: Development, Characterization, and Assessment for Neural Tissue Engineering. 2020 , 5, 22325-22334		11

277	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
276	Multiscale engineering of functional organic polymer interfaces for neuronal stimulation and recording. 2020 , 4, 3444-3471		2
275	Biofabrication for neural tissue engineering applications. 2020 , 6, 100043		43
274	Recent Advances in the Regenerative Approaches for Traumatic Spinal Cord Injury: Materials Perspective. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 6490-6509	5.5	13
273	Functionalization of Electrospun Nanofibers and Fiber Alignment Enhance Neural Stem Cell Proliferation and Neuronal Differentiation. 2020 , 8, 580135		17
272	Application of blocking and immobilization of electrospun fiber in the biomedical field.. 2020 , 10, 37246-372658		
271	Natural-Based Biomaterials for Peripheral Nerve Injury Repair. 2020 , 8, 554257		22
270	Nanofiber alignment for biomedical applications. 2020 ,		2
269	Optimization and physical performance evaluation of electrospun nanofibrous mats of PLA, PCL and their blends. 2020 , 152808372094450		12
268	Preparation and Characterization of an Electrospun PLA-Cyclodextrins Composite for Simultaneous High-Efficiency PM and VOC Removal. 2020 , 4, 79		6
267	Fabrication of amyloid nanofiber matrices by electrospinning. 2020 , 41-68		
266	The combination of a poly-caprolactone/nano-hydroxyapatite honeycomb scaffold and mesenchymal stem cells promotes bone regeneration in rat calvarial defects. 2020 , 14, 1570-1580		11
265	Electrohydrodynamics of droplets and jets in multiphase microsystems. 2020 , 16, 8526-8546		3
264	Increased neuritogenesis on ternary nanofiber matrices of PLCL and laminin decorated with black phosphorus. <i>Journal of Industrial and Engineering Chemistry</i> , 2020 , 92, 226-235	6.3	9
263	Nanofibrous asymmetric collagen/curcumin membrane containing aspirin-loaded PLGA nanoparticles for guided bone regeneration. 2020 , 10, 18200		37
262	Synergistic effects of conductive PVA/PEDOT electrospun scaffolds and electrical stimulation for more effective neural tissue engineering. 2020 , 140, 110051		24
261	Microenvironment-responsive immunoregulatory electrospun fibers for promoting nerve function recovery. 2020 , 11, 4504		45
260	An Electroactive Oligo-EDOT Platform for Neural Tissue Engineering. 2020 , 30, 2003710		21

259	Effects of Graphene-Based Materials on the Behavior of Neural Stem Cells. 2020 , 2020, 1-16		5
258	Topographical and Biomechanical Guidance of Electrospun Fibers for Biomedical Applications. <i>Polymers</i> , 2020 , 12,	4.5	17
257	Influence of excluded volume interactions on the dynamics of dendrimer and star polymers in layered random flow. 2020 , 94, 1		0
256	Biocompatibility and bioactivity of an FGF-loaded microsphere-based bilayer delivery system. 2020 , 111, 341-348		7
255	Porous Silicon Nanoparticles Embedded in Poly(lactic--glycolic acid) Nanofiber Scaffolds Deliver Neurotrophic Payloads to Enhance Neuronal Growth. 2020 , 30, 2002560		11
254	A combinatorial approach for spinal cord injury repair using multifunctional collagen-based matrices: development, characterization and impact on cell adhesion and axonal growth. 2020 , 15, 055024		1
253	Strategies to Improve Nanofibrous Scaffolds for Vascular Tissue Engineering. 2020 , 10,		13
252	3D anisotropic photocatalytic architectures as bioactive nerve guidance conduits for peripheral neural regeneration. <i>Biomaterials</i> , 2020 , 253, 120108	15.6	44
251	In situ 3D-patterning of electrospun fibers using two-layer composite materials. 2020 , 10, 7949		2
250	Application of Electrospun Materials in Packaging Industry. 2020 , 131-149		
249	Smart Fibers. 2020 , 361-390		1
248	Molecularly Imprinted Polymers and Electrospinning: Manufacturing Convergence for Next-Level Applications. 2020 , 30, 2001955		21
247	Maneuvering the Migration and Differentiation of Stem Cells with Electrospun Nanofibers. 2020 , 7, 2000735		32
246	Polymeric Biomaterial Scaffolds for Tumoricidal Stem Cell Glioblastoma Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2020 , 6, 3762-3777	5.5	6
245	The Role of the Microenvironment in Controlling the Fate of Bioprinted Stem Cells. 2020 , 120, 11056-11092		19
244	In vivo biocompatibility study of degradable homo- versus multiblock copolymers and their (micro)structure compared to an established biomaterial. 2020 , 75, 163-176		6
243	Accelerated Outgrowth of Neurites on Graphene Oxide-Based Hybrid Electrospun Fibro-Porous Polymeric Substrates.. 2020 , 3, 2160-2169		4
242	Introduction to Bionanotechnology. 2020 ,		3

241	Evaluating Osteogenic Differentiation of Mesenchymal Stem Cells on Poly(caprolactone) Electrospun Scaffolds by Image Processing Techniques. 2020 , 10, 381-388		1
240	Hierarchical fibrous guiding cues at different scales influence linear neurite extension. 2020 , 113, 350-359		10
239	Textured and Porous Biomaterials. 2020 , 601-622		4
238	Nebulized jet-based printing of bio-electrical scaffolds for neural tissue engineering: a feasibility study. <i>Biofabrication</i> , 2020 , 12, 025024	10.5	6
237	Electrospun Functional Materials toward Food Packaging Applications: A Review. 2020 , 10,		94
236	Recent trends in the application of widely used natural and synthetic polymer nanocomposites in bone tissue regeneration. 2020 , 110, 110698		160
235	Microfluidics-Based On-Demand Generation of Nonwoven and Single Polymer Microfibers. 2020 , 36, 1227-1234		7
234	Piezoelectric Scaffolds as Smart Materials for Neural Tissue Engineering. <i>Polymers</i> , 2020 , 12,	4.5	39
233	Spinal cord injury. 2020 , 1047-1091		0
232	Spun Biotextiles in Tissue Engineering and Biomolecules Delivery Systems. 2020 , 9,		13
231	3D Printing of Bioinspired Biomaterials for Tissue Regeneration. 2020 , 9, e2000208		16
230	Development of two-photon polymerised scaffolds for optical interrogation and neurite guidance of human iPSC-derived cortical neuronal networks. 2020 , 20, 1792-1806		8
229	Nanostructured Materials for Artificial Tissue Replacements. <i>International Journal of Molecular Sciences</i> , 2020 , 21,	6.3	12
228	Ultrathin Biocompatible Electrospun Fiber Films for Self-Powered Human Motion Sensor. 2021 , 8, 855-868		12
227	Nanofibers in Food Applications. 2021 , 634-650		2
226	From infection to healing: The use of plant viruses in bioactive hydrogels. 2021 , 13, e1662		3
225	Gelatin-polycaprolactone-nanohydroxyapatite electrospun nanocomposite scaffold for bone tissue engineering. 2021 , 119, 111588		39
224	Electrospun bioactive composites for neural tissue engineering applications. 2021 , 1-43		

223	A Hierarchical Janus Nanofibrous Membrane Combining Direct Osteogenesis and Osteoimmunomodulatory Functions for Advanced Bone Regeneration. 2021 , 31, 2008906	24
222	Novel method to produce a layered 3D scaffold for human pluripotent stem cell-derived neuronal cells. 2021 , 350, 109043	4
221	Virtual Prototyping & Bio Manufacturing in Medical Applications. 2021 ,	1
220	Engineering Oriented Scaffolds for Directing Neuronal Regeneration. 2021 , 125-152	
219	Cell-derived decellularized extracellular matrix scaffolds for articular cartilage repair. 2021 , 44, 269-281	3
218	Melting Temperature of Individual Electrospun Poly(vinylidene fluoride) Fibers Studied by AFM-based Local Thermal Analysis. 2021 , 39, 219-227	1
217	Regeneration of the peripheral nerve via multifunctional electrospun scaffolds. 2021 , 109, 437-452	15
216	Production of Nanofibers, Environmental Challenges and Solutions. 2021 , 237-260	
215	Study of mechanical properties of electrospun polyacrylonitrile nanofibrous membrane. 2021 ,	
214	Impact of Water and UV Irradiation on Nonwoven Polylactide/Natural Rubber Fiber. <i>Polymers</i> , 2021 , 13,	4.5 9
213	Recent Progress in Electrospinning Technologies for Graphene-Based Materials. 2021 , 1-34	
212	Nanofibrous nerve guidance conduits decorated with decellularized matrix hydrogel facilitate peripheral nerve injury repair. 2021 , 11, 2917-2931	19
211	Parametric Finite Element Model and Mechanical Characterisation of Electrospun Materials for Biomedical Applications. 2021 , 14,	0
210	Novel oxygen-generation from electrospun nanofibrous scaffolds with anticancer properties: synthesis of PMMA-conjugate PVP-HO nanofibers, characterization, and bio-evaluation tests.. 2021 , 11, 19978-19991	2
209	A Review on Natural Fiber Bio-Composites, Surface Modifications and Applications. 2021 , 26,	36
208	Natural Polysaccharides on Wound Healing. 2021 , 1-16	
207	Nanomaterial-Based Bio Scaffolds for Enhanced Biomedical Applications. 2021 , 125-160	1
206	Biomaterials for Hard Tissue Engineering: Concepts, Methods, and Applications. 2021 , 347-380	

205	Beneficial Roles of Cellulose Patch-Mediated Cell Therapy in Myocardial Infarction: A Preclinical Study. 2021 , 10,		0
204	3D PCL/Gelatin/Genipin Nanofiber Sponge as Scaffold for Regenerative Medicine. 2021 , 14,		5
203	Biofabrication of muscle fibers enhanced with plant viral nanoparticles using surface chaotic flows. <i>Biofabrication</i> , 2021 , 13,	10.5	6
202	Hollow Fiber and Nanofiber Membranes in Bioartificial Liver and Neuronal Tissue Engineering. 2021 , 1-30		2
201	Self-microemulsification-assisted incorporation of tacrolimus into hydrophilic nanofibers for facilitated treatment of 2,4-dinitrochlorobenzene induced atopic dermatitis like lesions. 2021 , 62, 102326		0
200	The Effect of Solvent and Molecular Weight on the Morphology of Centrifugally Spun Poly(vinylpyrrolidone) Nanofibers. <i>Fibers and Polymers</i> , 2021 , 22, 2394-2403	2	5
199	The Development of Polylactic Acid/Multi-Wall Carbon Nanotubes/Polyethylene Glycol Scaffolds for Bone Tissue Regeneration Application. <i>Polymers</i> , 2021 , 13,	4.5	6
198	Fabrication of hierarchical porous poly (l-lactide) (PLLA) fibrous membrane by electrospinning. 2021 , 226, 123797		4
197	Metabolomics analysis of poly(l-lactic acid) nanofibers' performance on PC12 cell differentiation. 2021 , 8, rbab031		4
196	Thermal and dynamic mechanical behavior of poly(lactic acid) (PLA)-based electrospun scaffolds for tissue engineering. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51313	2.9	5
195	Donepezil hydrochloride as a novel inducer for osteogenic differentiation of mesenchymal stem cells on PLLA scaffolds in vitro. 2021 , 16, e2100112		1
194	Scaffolds Designing from Protein-loadable Coaxial Electrospun Fibermats of poly(acrylamide)-co-poly(diacetone acrylamide) and Gelatin. 2021 , 04,		
193	Versatility of unsaturated polyesters from electrospun macrolactones: RGD immobilization to increase cell attachment. 2021 ,		1
192	Main Morphological Characteristics of Tubular Polymeric Scaffolds to Promote Peripheral Nerve Regeneration-A Scoping Review. <i>Polymers</i> , 2021 , 13,	4.5	3
191	The Influence of the Surface Topographical Cues of Biomaterials on Nerve Cells in Peripheral Nerve Regeneration: A Review. 2021 , 2021, 8124444		2
190	PEDOT:PSS-Coated Polybenzimidazole Electroconductive Nanofibers for Biomedical Applications. <i>Polymers</i> , 2021 , 13,	4.5	2
189	Effect of Exposure in Aqueous Medium at Elevated Temperature on the Structure of Nonwoven Materials Based on Polylactide and Natural Rubber. 2021 , 63, 515-525		2
188	Fibers by Electrospinning and Their Emerging Applications in Bone Tissue Engineering. 2021 , 11, 9082		4

187	Antimicrobial peptides - Unleashing their therapeutic potential using nanotechnology. 2021 , 107990	12
186	Progress of superconducting nanofibers via electrospinning. 2021 , 34,	1
185	Co-loading of doxorubicin and iron oxide nanocubes in polycaprolactone fibers for combining Magneto-Thermal and chemotherapeutic effects on cancer cells. 2022 , 607, 34-44	3
184	Multifunctional Fibroblasts Enhanced via Thermal and Freeze-Drying Post-treatments of Aligned Electrospun Nanofiber Membranes. 2021 , 3, 26-37	14
183	Electrospun Nanomatrix for Tissue Regeneration. 561-580	2
182	Biomimetic Nanofibrous Scaffolds for Bone Tissue Engineering Applications. 69-89	2
181	Biomimetic Gelatin Nanocomposite as a Scaffold for Bone Tissue Repair. 487-525	2
180	Spinal Cord Repair by Means of Tissue Engineered Scaffolds. 2013 , 485-547	1
179	Electrospun Nano-architectures for Tissue Engineering and Regenerative Medicine. 2020 , 213-248	2
178	Design and Development of Electrospun Nanofibers in Regenerative Medicine. 2019 , 47-79	3
177	Energy Harvesting Smart Textiles. 2017 , 199-231	8
176	Biological responses of endothelial cells to aligned nanofibers of MWNT/PU by electrospinning. 2008 , 194-197	1
175	Nanocomposites as Bone Implant Material. 2013 , 941-976	3
174	Nanofiber Biomaterials. 2013 , 977-1010	8
173	Neural Tissue Engineering. 2011 , 489-510	1
172	Fibrous Scaffolds for Tissue Engineering. 2011 , 47-73	6
171	Experimental reconstruction of the injured spinal cord. 2011 , 65-95	5
170	Introduction to Ideal Characteristics and Advanced Biomedical Applications of Biomaterials. 2019 , 171-204	3

169	Polycaprolactone-Based Nanofibers and their In-Vitro and In-Vivo Applications in Bone Tissue Engineering. 2020 , 17-38	1
168	Introduction to nanofiber composites. 2017 , 3-29	9
167	Polymer nanofiber composites. 2017 , 55-78	4
166	Physicochemical characterization of nanofiber composites. 2017 , 97-115	23
165	Biological characterization of nanofiber composites. 2017 , 157-196	2
164	Biodegradable electrospun PLLA fibers containing the mosquito-repellent DEET. 2019 , 113, 377-384	12
163	CHAPTER 1:Bio-based Polymers and Materials. 1-28	4
162	Chapter 14:Materials for Tissue Engineering and 3D Cell Culture. 2016 , 460-489	1
161	Preparation and characterization of antibacterial dopamine-functionalized reduced graphene oxide/PLLA composite nanofibers.. 2020 , 10, 18614-18623	10
160	Conducting Polymers: Biodegradable Tissue Engineering. 1972-1981	2
159	Nano-featured Scaffolds for Tissue Engineering: A Review of Spinning Methodologies. 2006 , 060317120837008	
158	Role of Fiber Diameter in Adhesion and Proliferation of NIH 3T3 Fibroblast on Electrospun Polycaprolactone Scaffolds. 2007 , 070110055731001	3
157	Nanostructures for Musculoskeletal Tissue Engineering. 2008 , 329-351	2
156	Tissue Engineering. 2008 , 3-32	1
155	Carbon Nanotubes and Neuronal Performance. 2012 , 199-202	1
154	Electrospinning of Nanofibers. 2012 , 293-320	3
153	Biocompatibility of Elastomers. 2013 , 415-494	1
152	Engineering Nanotextiles: Design of Textile Products. 2015 , 1-40	1

151	Tissue Engineering: New Paradigm of Biomedicine. 2019 , 16, 521-532	5
150	Electrospun Polylactic Acid Based Nanofibers for Biomedical Applications. 2018 , 15, 224-240	12
149	Two distinct filopodia populations at the growth cone allow to sense nanotopographical extracellular matrix cues to guide neurite outgrowth. 2010 , 5, e15966	74
148	Tissue-engineered regeneration of completely transected spinal cord using induced neural stem cells and gelatin-electrospun poly (lactide-co-glycolide)/polyethylene glycol scaffolds. 2015 , 10, e0117709	55
147	Cytocompatibility of a conductive nanofibrous carbon nanotube/poly (L-Lactic acid) composite scaffold intended for nerve tissue engineering. 2015 , 14, 851-60	25
146	Nanofibers and their applications in tissue engineering. 2006 , 1, 15-30	644
145	Surface Modification by Nanobiomaterials for Vascular Tissue Engineering Applications. 2020 , 27, 1634-1646	3
144	Smart electrospun nanofibers for controlled drug release: recent advances and new perspectives. 2015 , 21, 1944-59	118
143	Amalgamation of Stem Cells with Nanotechnology: A Unique Therapeutic Approach. 2019 , 14, 83-92	13
142	Uncovering the Diversification of Tissue Engineering on the Emergent Areas of Stem Cells, Nanotechnology and Biomaterials. 2020 , 15, 187-201	4
141	Enabling Approaches for Tissue Regeneration: Current Challenges and New Developments. 2020 , 8, 85	19
140	Electrospun Fiber Scaffolds for Engineering Glial Cell Behavior to Promote Neural Regeneration. 2020 , 8,	8
139	A proteomic analysis of the interactions between poly(L-lactic acid) nanofibers and SH-SY5Y neuronal-like cells. 2016 , 3, 661-682	4
138	Electrospun silk fibroin nanofibers promote Schwann cell adhesion, growth and proliferation. 2012 , 7, 1171-8	25
137	Nanobiomaterials for neural regeneration. 2016 , 11, 1372-1374	12
136	Electrospun fibers: a guiding scaffold for research and regeneration of the spinal cord. 2016 , 11, 1764-1765	5
135	Design and criteria of electrospun fibrous scaffolds for the treatment of spinal cord injury. 2017 , 12, 1786-1790	24
134	Optimization of micropatterned poly(lactic-co-glycolic acid) films for enhancing dorsal root ganglion cell orientation and extension. 2018 , 13, 105-111	10

133	Aligned fibers enhance nerve guide conduits when bridging peripheral nerve defects focused on early repair stage. 2019 , 14, 903-912	25
132	Extracellular matrix and biomimetic engineering microenvironment for neuronal differentiation. 2020 , 15, 573-585	34
131	The role of biodegradable engineered random polycaprolactone nanofiber scaffolds seeded with nestin-positive hair follicle stem cells for tissue engineering. 2016 , 5, 22	11
130	Recent Strategies for the Development of Biosourced-Monomers, Oligomers and Polymers-Based Materials: A Review with an Innovation and a Bigger Data Focus. 2016 , 07, 167-213	12
129	Development of Biobased Poly(Lactic Acid)/Epoxidized Natural Rubber Blends Processed by Electrospinning: Morphological, Structural and Thermal Properties. 2016 , 07, 210-219	5
128	PVDF and P(VDF-TrFE) Electrospun Scaffolds for Nerve Graft Engineering: A Comparative Study on Piezoelectric and Structural Properties, and In Vitro Biocompatibility. <i>International Journal of Molecular Sciences</i> , 2021 , 22,	6.3 6
127	Research progress, models and simulation of electrospinning technology: a review. 2021 , 1-47	6
126	Preparation of Polyimide Nanofiber Membranes and Interlaminar Toughness Investigation of Their Toughened Composites.	0
125	Enhanced neural differentiation of human-induced pluripotent stem cells on aligned laminin-functionalized polyethersulfone nanofibers; a comparison between aligned and random fibers on neurogenesis. 2021 ,	0
124	Development of 3D culture scaffolds for directional neuronal growth using 2-photon lithography. 2021 , 131, 112502	2
123	Biodegradable Polymer Nanofiber Mesh to Maintain Functions of Endothelial Cells. 2006 , 060810082023001	
122	Biodegradable Polymer Nanofiber Mesh to Maintain Functions of Endothelial Cells. 2006 , 060913044658003	
121	Review:Ex VivoEngineering of Living Tissues with Adult Stem Cells. 2006 , 061025073633001	
120	Characterization of Polyacrylonitrile Nanofibers by Electrospinning. 2007 , 17, 278-282	1
119	Electrospinning Techniques to Control Deposition and Structural Alignment of Nanofibrous Scaffolds for Cellular Orientation and Cytoskeletal Reorganization. 2008 , 243-260	
118	Development and Differentiation of Neural Stem and Progenitor Cells on Synthetic and Biologically Based Surfaces. 2009 , 245-262	
117	Stem Cells and Nanostructured Materials. 2009 , 1-20	
116	?????????????. 2009 , 62, 227-232	

¹¹⁵ Influence of self-designed three-dimensional woven scaffolds on in vitro growth of Schwann cells and its in vivo degradation. **2009**, 29, 1186-1190

¹¹⁴ Nanoengineered Systems for Tissue Engineering and Regeneration. 361

1

¹¹³ Stem Cells and Biomaterials: The Tissue Engineering Approach. **2011**, 451-464

¹¹² Electrically Active Neural Biomaterials. **2011**, 95-114

¹¹¹ Direct Differentiation of Human Embryonic Stem Cells into Selective Neurons on Nanoscale Ridge/Groove Pattern Arrays. **2011**, 415-425

¹¹⁰ PHBV/Proteins Composite Nanofibrous Scaffolds for Tissue Engineering. **2012**, 257-271

¹⁰⁹ Biodegradable Tunable Nanofibrous Matrix for Regenerative Medicine. **2012**, 233-256

¹⁰⁸ Nanostructured Polymers. **2012**, 415-500

¹⁰⁷ Stimulative Effects of Hominis Placental Pharmacopuncture Solution Combined with Zinc-oxide Nanoparticles on RAW 264.7 Cells: ZnO HPPS more easily stimulates RAW 264.7 cells. **2012**, 15, 13-8

1

¹⁰⁶ Spinal Cord Injury: Tissue Engineering Using Neural Stem Cells. **2013**, 271-287

¹⁰⁵ Pegylated Zinc Protoporphyrin: A Micelle-Forming Polymeric Drug for Cancer Therapy. **2012**, 181-212

¹⁰⁴ Bioresorbable Hybrid Membranes for Bone Regeneration. **2013**, 177-192

¹⁰³ Electrospinning for Regenerative Medicine. **2013**, 539-592

¹⁰² Spinning. **2014**, 26, 317-324

¹⁰¹ Nanoscaffolds and Other Nano-Architectures for Tissue Engineering Related Applications. **2014**, 195-227

¹⁰⁰ Fundamental Properties of Electrospun Polylactic Acid/Cellulose Nanocrystal Composite Mats. **2015**, 43, 518-527

⁹⁹ Electrospinning Technology: Cellulose and Cellulose Derivatives. 3218-3258

⁹⁸ Bone Regeneration: Bioresorbable Hybrid Membranes for. 1104-1114

- 97 Biomimetic Materials: Polymeric Substrates for Axonal Regeneration. 913-931
- 96 Electrospinning Technology: Polymeric Nanofiber Drug Delivery. 3203-3217
- 95 Elastomers: Biocompatibility. 3035-3088
- 94 Treatment of Neurodegenerative Diseases with Using of Stem Cells/Scaffolds. **2016**, 2,
- 93 Tissue Engineering Therapies for Ocular Regeneration. **2016**, 173-197
- 92 Electrospun Nanofibrous Nerve Conduits. **2017**, 207-234
- 91 Electrospinning Technology: Cellulose and Cellulose Derivatives. **2017**, 506-546
- 90 Electrospinning Technology: Polymeric Nanofiber Drug Delivery. **2017**, 491-505
- 89 Translational Challenges in Soft Tissue Regeneration. **2019**, 245-281
- 88 Bioscaffolds in Periodontal Regeneration. **2019**, 9, 428-436
- 87 Biofabrication of muscle fibers enhanced with plant viral nanoparticles using surface chaotic flows.
- 86 GENTAMICIN YÜKLENEK PCL NANOFİBERLERİNİN ETKİLİK HİCRESİNE ETKİLİ PLAZMİD DNA ORANI. **2020**, 8, 293-302
- 85 Bionanotechnology in Biotechnology. **2020**, 171-197
- 84 Development of fibronectin-loaded nanofiber scaffolds for guided pulp tissue regeneration. **2021**, 109, 1244-1258 1
- 83 Polymeric Biomaterials. **2021**, 49-100 1
- 82 Graphene Functionalized PLA Nanocomposites and Their Biomedical Applications. **2021**, 83-105 1
- 81 A Nanodiamond-Based Surface Topography Downregulates the MicroRNA miR6236 to Enhance Neuronal Development and Regeneration. **2021**, 4, 890-902 1
- 80 Tissue Engineering and Regenerative Medicines: An Interdisciplinary Understanding. **2020**, 409-438 1

79	Biodegradable hyaluronic acid-based, nitric oxide-releasing nanofibers for potential wound healing applications. 2021 , 9, 8160-8170		2
78	Collagen Fibers. 2020 , 157-174		
77	Electrospinning Fabrication Strategies. 2020 , 1-52		0
76	Microstructure Manipulation of Polyurethane-Based Macromolecular Scaffold for Tendon/Ligament Tissue Engineering. 2100584		2
75	miR6236, a microRNA suppressed by the anisotropic surface topography, regulates neuronal development and regeneration.		
74	Micro and Nano Patterning for Cell and Tissue Engineering. 2008 , 215-229		
73	Patterning of polymer nanofiber meshes by electrospinning for biomedical applications. 2007 , 2, 433-48		46
72	The role of biodegradable engineered nanofiber scaffolds seeded with hair follicle stem cells for tissue engineering. <i>Iranian Biomedical Journal</i> , 2012 , 16, 193-201	2	13
71	Biomaterials patterning regulates neural stem cells fate and behavior: The interface of biology and material science. 2021 ,		1
70	Developing biomaterials to mediate the spatial distribution of integrin. 2021 , 2, 041302		0
69	Nanotechnology for stem cell and tissue engineering. 2021 ,		1
68	Non-Woven Sheet Containing Gemcitabine: Controlled Release Complex for Pancreatic Cancer Treatment.. <i>Polymers</i> , 2022 , 14,	4.5	0
67	Osteogenic Differentiation Potential of Adipose-Derived Mesenchymal Stem Cells Cultured on Magnesium Oxide/Polycaprolactone Nanofibrous Scaffolds for Improving Bone Tissue Reconstruction.. 2022 , 12, 142-154		1
66	Nanobiomaterials for regenerative medicine. 2022 , 141-187		1
65	Optimal Morphometric Characteristics of a Tubular Polymeric Scaffold to Promote Peripheral Nerve Regeneration: A Scoping Review.. <i>Polymers</i> , 2022 , 14,	4.5	0
64	Aligned Poly-L-lactic Acid Nanofibers Induce Self-Assembly of Primary Cortical Neurons into 3D Cell Clusters.. <i>ACS Biomaterials Science and Engineering</i> , 2022 ,	5.5	1
63	Directional Growth of cm-Long PLGA Nanofibers by a Simple and Fast Wet-Processing Method.. 2022 , 15,		
62	Decellularized Extracellular Matrix Containing Electrospun Fibers for Nerve Regeneration: A Comparison Between CoreShell Structured and Preblended Composites. 1		3

61	Multifunctional Membranes-A Versatile Approach for Emerging Pollutants Removal.. 2022 , 12,		2
60	Recently developed electrospinning methods: a review. 004051752110698		3
59	3D hybrid scaffold with aligned nanofiber yarns embedded in injectable hydrogels for monitoring and repairing chronic wounds. 2022 , 234, 109688		3
58	High efficiency biomimetic electrospun fibers for use in regenerative medicine and drug delivery: A review. <i>Materials Chemistry and Physics</i> , 2022 , 279, 125785	4.4	1
57	Polymeric Fibers as Scaffolds for Spinal Cord Injury: A Systematic Review.. 2021 , 9, 807533		2
56	Biomimetic Biomaterials in the Tissue Engineering Perspective. 2022 , 1-28		
55	Natural Polysaccharides on Wound Healing. 2022 , 1117-1132		
54	Silk Fibroin-Based Biomaterials in Biomedical Applications. 2022 , 203-244		
53	Polydopamine-coated polycaprolactone/carbon nanotubes fibrous scaffolds loaded with brain-derived neurotrophic factor for peripheral nerve regeneration.. <i>Biofabrication</i> , 2022 ,	10.5	2
52	Interfacing Electrospun Nanofibers with Microorganisms. 2022 , 255-289		0
51	Evaluation of mechanical properties of poly(L -lactic acid) braided stents with axial stiffeners. <i>Journal of Applied Polymer Science</i> , 52242	2.9	
50	KESİM EKİMLERİ POLİ(L-LAKTİK ASİT) FİDAMENT İLE ZELLÜLERNE ETKİLERİ <i>Uludağ University Journal of the Faculty of Engineering</i> , 375-388	0.1	0
49	Enhancement of chemical, physical, and surface properties of electrospun PCL / PLA blends by means of air plasma treatment. <i>Polymer Engineering and Science</i> ,	2.3	0
48	Thermal Properties and Dynamic Characteristics of Electrospun Polylactide/Natural Rubber Fibers during Disintegration in Soil.. <i>Polymers</i> , 2022 , 14,	4.5	4
47	Engineering Biomimetic Extracellular Matrix with Silica Nanofibers: From 1D Material to 3D Network.. <i>ACS Biomaterials Science and Engineering</i> , 2022 ,	5.5	0
46	Miscibility and thermal stability of synthetic glutamic acid comprising polypeptide with polyvinyl alcohol: Fabrication of nanofibrous electrospun membranes. <i>Materials Chemistry and Physics</i> , 2022 , 281, 125847	4.4	0
45	Dual surface modification of poly(L-lactide) scaffold achieved by thermal incorporation of aligned nanofiber and click immobilization of VEGF to enhance endothelialization and blood compatibility. <i>Applied Surface Science</i> , 2022 , 589, 152969	6.7	1
44	Nanofiber curvature with Rho GTPase activity increases mouse embryonic fibroblast random migration velocity.. <i>Integrative Biology (United Kingdom)</i> , 2021 , 13, 295-308	3.7	1

43	The Role of Tissue Geometry in Spinal Cord Regeneration.. <i>Medicina (Lithuania)</i> , 2022 , 58,	3.1	
42	Batch Fabrication and Characterization of ZnO/PLGA/PCL Nanofiber Membranes for Antibacterial Materials. <i>Fibers and Polymers</i> , 1	2	0
41	Data_Sheet_1.docx. 2020 ,		
40	Enhanced Nerve Regeneration by Bionic Conductive Nerve Scaffold Under Electrical Stimulation.. <i>Frontiers in Neuroscience</i> , 2022 , 16, 810676	5.1	2
39	Tuning structural-response of PLA/PCL based electrospun nanofibrous mats: Role of dielectric-constant and electrical-conductivity of the solvent system.. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2022 , 1-22	3.5	0
38	Review of advances in electrospinning-based strategies for spinal cord regeneration. <i>Materials Today Chemistry</i> , 2022 , 24, 100944	6.2	9
37	Tissue engineeringElectrospinning approach. 2022 , 213-224		
36	PROCESSING OF POLY(LACTIC ACID). 2022 , 231-270		1
35	Lytic Bacteriophage as a Biomaterial to Prevent Biofilm Formation and Promote Neural Growth. <i>Tissue Engineering and Regenerative Medicine</i> ,	4.5	
34	Electrophysiological Recordings from Embryonic Mouse Motoneurons Cultured on Electrospun Poly-Lactic Acid (PLA) and Polypyrrole-Coated PLA Scaffolds. <i>Iranian Biomedical Journal</i> , 2022 , 26, 183-192		
33	Electrical Stimulation Increases Axonal Growth from Dorsal Root Ganglia Co-Cultured with Schwann Cells in Highly Aligned PLA-PPy-Au Microfiber Substrates. <i>International Journal of Molecular Sciences</i> , 2022 , 23, 6362	6.3	
32	Application and prospects of high-throughput screening for in vitro neurogenesis. <i>World Journal of Stem Cells</i> , 2022 , 14, 393-419	5.6	
31	Development of Micro/Nano Channels Using Electrospinning for Neural Differentiation of Cells. 2022 , 737-760		
30	Tannic Acid: A Versatile Polyphenol For Design of Biomedical Hydrogels. <i>Journal of Materials Chemistry B</i> ,	7.3	5
29	Topographical pattern for neuronal tissue engineering. <i>Journal of Industrial and Engineering Chemistry</i> , 2022 ,	6.3	
28	Electrospun Polymeric Substrates for Tissue Engineering: Viewpoints on Fabrication, Application, and Challenges.		
27	Bioinspired micro- and nano-structured neural interfaces.		1
26	Electrical Stimulation-Mediated Differentiation of Neural Cells on Conductive Carbon Nanofiller-Based Scaffold.		

25	Random/aligned electrospun PCL fibrous matrices with modified surface textures: Characterization and interactions with dermal fibroblasts and keratinocytes. 2022 , 218, 112724	0
24	Porous Biomaterials for Tissue Engineering: A Review.	2
23	A Strategy for Magnetic and Electric Stimulation to Enhance Proliferation and Differentiation of NPCs Seeded over PLA Electrospun Membranes. 2022 , 10, 2736	0
22	The Effect of Angiogenesis-Based Scaffold of MesoporousBioactive Glass Nanofiber on Osteogenesis. 2022 , 23, 12670	1
21	On the quest of reliable 3D dynamic in vitro blood-brain barrier models using polymer hollow fiber membranes: Pitfalls, progress, and future perspectives. 10,	0
20	Nanofibrous scaffolds for regenerative endodontics treatment. 10,	0
19	Systematic Alignment Analysis of Neural Transplant Cells in Electrospun Nanofibre Scaffolds. 2023 , 16, 124	0
18	Fabrication of 3D oriented carbon nanofiber by two-nuzzle electrospinning as a cell scaffold.	0
17	A functional neuron maturation device provides convenient application on microelectrode array for neural network measurement. 2022 , 26,	1
16	Fiber and Electrical Field Alignment Increases BDNF Expression in SH-SY5Y Cells following Electrical Stimulation. 2023 , 16, 138	0
15	Modulating axonal growth and neural stem cell migration with the use of uniaxially aligned nanofiber yarns welded with NGF-loaded microparticles. 2023 , 17, 100343	0
14	Electrospun Nanofiber-based Drug Carriers to Manage Inflammation.	0
13	Encapsulation of bioactive compounds: Role of nanotechnology. 2023 , 39-65	0
12	Phased array ultrasound enhanced delivery of nano drugs for tendon adhesion treatment. 2023 , 204, 109231	0
11	Functional bioengineered models of the central nervous system. 2023 , 1, 252-270	0
10	Lignin derived carbon fiber and nanofiber: Manufacturing and applications. 2023 , 255, 110613	0
9	Poly(lactide)-Meso-Substituted Arylporphyrin Composites: Structure, Properties and Antibacterial Activity. 2023 , 15, 1027	0
8	Promising Agromaterials Based on Biodegradable Polymers: Polylactide and Poly-3-Hydroxybutyrate. 2023 , 15, 1029	1

- 7 Eumelanin-Coated Aligned PLA Electrospun Microfibers to Guide SH-SY5Y Cells Spreading, Alignment, And Maturation. **2023**, 10, 2202022 ○
- 6 Aligned Polyhydroxyalkanoate Blend Electrospun Fibers as Intraluminal Guidance Scaffolds for Peripheral Nerve Repair. **2023**, 9, 1472-1485 ○
- 5 Preparation and Characterization of Electrospun Polylactic Acid Micro/Nanofibers under Different Solvent Conditions. **2021**, 17, 629-638 ○
- 4 Polymer Nanofibers. 1-39 ○
- 3 Combined treatment using novel multifunctional MAu-GelMA hydrogel loaded with neural stem cells and electrical stimulation promotes functional recovery from spinal cord injury. **2023**, ○
- 2 Functionalized nanofibers for antimicrobial applications. **2023**, 167-209 ○
- 1 Microfluidic systems for neural tissue engineering. **2023**, 125-149 ○