

Seeram Ramakrishna

List of Publications by Year in descending order

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1,738
papers

131,146
citations

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docs citations

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times ranked

88271
citing authors

#	ARTICLE	IF	CITATIONS
1	A review on polymer nanofibers by electrospinning and their applications in nanocomposites. <i>Composites Science and Technology</i> , 2003, 63, 2223-2253.	3.8	6,630
2	A review on electrospinning design and nanofibre assemblies. <i>Nanotechnology</i> , 2006, 17, R89-R106.	1.3	1,892
3	Electrospinning of nano/micro scale poly(L-lactic acid) aligned fibers and their potential in neural tissue engineering. <i>Biomaterials</i> , 2005, 26, 2603-2610.	5.7	1,652
4	Biomedical applications of polymer-composite materials: a review. <i>Composites Science and Technology</i> , 2001, 61, 1189-1224.	3.8	1,260
5	A review on nanomaterials for environmental remediation. <i>Energy and Environmental Science</i> , 2012, 5, 8075.	15.6	1,213
6	Electrospun nanofibers: solving global issues. <i>Materials Today</i> , 2006, 9, 40-50.	8.3	1,198
7	Aligned biodegradable nanofibrous structure: a potential scaffold for blood vessel engineering. <i>Biomaterials</i> , 2004, 25, 877-886.	5.7	1,128
8	Anti-reflective coatings: A critical, in-depth review. <i>Energy and Environmental Science</i> , 2011, 4, 3779.	15.6	1,067
9	Electrospun poly(ϵ -caprolactone)/gelatin nanofibrous scaffolds for nerve tissue engineering. <i>Biomaterials</i> , 2008, 29, 4532-4539.	5.7	1,049
10	Potential of Nanofiber Matrix as Tissue-Engineering Scaffolds. <i>Tissue Engineering</i> , 2005, 11, 101-109.	4.9	967
11	Electrospinning of gelatin fibers and gelatin/PCL composite fibrous scaffolds. <i>Journal of Biomedical Materials Research Part B</i> , 2005, 72B, 156-165.	3.0	924
12	Electrospun nanofibers in energy and environmental applications. <i>Energy and Environmental Science</i> , 2008, 1, 205.	15.6	846
13	Evaluation of electrospun PCL/gelatin nanofibrous scaffold for wound healing and layered dermal reconstitution. <i>Acta Biomaterialia</i> , 2007, 3, 321-330.	4.1	784
14	Nanofibrous filtering media: Filtration problems and solutions from tiny materials. <i>Journal of Membrane Science</i> , 2007, 296, 1-8.	4.1	767
15	Current progress on bio-based polymers and their future trends. <i>Progress in Biomaterials</i> , 2013, 2, 8.	1.8	758
16	Electrospun P(LLA-CL) nanofiber: a biomimetic extracellular matrix for smooth muscle cell and endothelial cell proliferation. <i>Biomaterials</i> , 2004, 25, 1883-1890.	5.7	755
17	Electrospun nanofibrous filtration membrane. <i>Journal of Membrane Science</i> , 2006, 281, 581-586.	4.1	746
18	Carbon nanotube membranes for water purification: A bright future in water desalination. <i>Desalination</i> , 2014, 336, 97-109.	4.0	734

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19	Systematic parameter study for ultra-fine fiber fabrication via electrospinning process. <i>Polymer</i> , 2005, 46, 6128-6134.	1.8	660
20	Electrospun biomimetic nanocomposite nanofibers of hydroxyapatite/chitosan for bone tissue engineering. <i>Biomaterials</i> , 2008, 29, 4314-4322.	5.7	637
21	Material issues in additive manufacturing: A review. <i>Journal of Manufacturing Processes</i> , 2017, 25, 185-200.	2.8	632
22	Electrospinning and mechanical characterization of gelatin nanofibers. <i>Polymer</i> , 2004, 45, 5361-5368.	1.8	629
23	A review on self-cleaning coatings. <i>Journal of Materials Chemistry</i> , 2011, 21, 16304.	6.7	622
24	Development of nanocomposites for bone grafting. <i>Composites Science and Technology</i> , 2005, 65, 2385-2406.	3.8	620
25	Metal Oxides for Dye-sensitized Solar Cells. <i>Journal of the American Ceramic Society</i> , 2009, 92, 289-301.	1.9	575
26	Crosslinking of the electrospun gelatin nanofibers. <i>Polymer</i> , 2006, 47, 2911-2917.	1.8	571
27	Fabrication of nano-structured porous PLLA scaffold intended for nerve tissue engineering. <i>Biomaterials</i> , 2004, 25, 1891-1900.	5.7	564
28	Recent development of polymer nanofibers for biomedical and biotechnological applications. <i>Journal of Materials Science: Materials in Medicine</i> , 2005, 16, 933-946.	1.7	561
29	Application of conductive polymers, scaffolds and electrical stimulation for nerve tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011, 5, e17-e35.	1.3	559
30	Guided bone regeneration membrane made of polycaprolactone/calcium carbonate composite nano-fibers. <i>Biomaterials</i> , 2005, 26, 4139-4147.	5.7	553
31	A review on the enhancement of figure of merit from bulk to nano-thermoelectric materials. <i>Nano Energy</i> , 2013, 2, 190-212.	8.2	541
32	Methods and strategies for the synthesis of diverse nanoparticles and their applications: a comprehensive overview. <i>RSC Advances</i> , 2015, 5, 105003-105037.	1.7	519
33	Surface engineering of electrospun polyethylene terephthalate (PET) nanofibers towards development of a new material for blood vessel engineering. <i>Biomaterials</i> , 2005, 26, 2527-2536.	5.7	516
34	Electrospun cellulose nanofiber as affinity membrane. <i>Journal of Membrane Science</i> , 2005, 265, 115-123.	4.1	510
35	Graphitic carbon nitride (g-C ₃ N ₄)-based photocatalysts for solar hydrogen generation: recent advances and future development directions. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23406-23433.	5.2	472
36	Wound dressings: Current advances and future directions. <i>Journal of Applied Polymer Science</i> , 2019, 136, 47738.	1.3	463

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37	Coaxial Electrospinning of (Fluorescein Isothiocyanate-Conjugated Bovine Serum) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 747 Tid 2006, 7, 1049-1057.	2.6	459
38	Enhancement of neurite outgrowth using nano-structured scaffolds coupled with laminin. Biomaterials, 2008, 29, 3574-3582.	5.7	457
39	Characterization of the Surface Biocompatibility of the Electrospun PCL-Collagen Nanofibers Using Fibroblasts. Biomacromolecules, 2005, 6, 2583-2589.	2.6	455
40	Recent advances in nanomaterials for water protection and monitoring. Chemical Society Reviews, 2017, 46, 6946-7020.	18.7	441
41	Electrosprayed nanoparticles and electrospun nanofibers based on natural materials: applications in tissue regeneration, drug delivery and pharmaceuticals. Chemical Society Reviews, 2015, 44, 790-814.	18.7	438
42	Significance of Nanomaterials in Wearables: A Review on Wearable Actuators and Sensors. Advanced Materials, 2019, 31, e1805921.	11.1	438
43	Grafting of Gelatin on Electrospun Poly(caprolactone) Nanofibers to Improve Endothelial Cell Spreading and Proliferation and to Control Cell Orientation. Tissue Engineering, 2005, 11, 1149-1158.	4.9	437
44	Fabrication of collagen-coated biodegradable polymer nanofiber mesh and its potential for endothelial cells growth. Biomaterials, 2005, 26, 7606-7615.	5.7	435
45	Grapheneâ€”Polymer Nanofiber Membrane for Ultrafast Photonics. Advanced Functional Materials, 2010, 20, 782-791.	7.8	434
46	Necklace-like Multishelled Hollow Spinel Oxides with Oxygen Vacancies for Efficient Water Electrolysis. Journal of the American Chemical Society, 2018, 140, 13644-13653.	6.6	430
47	Unique Cobalt Sulfide/Reduced Graphene Oxide Composite as an Anode for Sodiumâ€”Ion Batteries with Superior Rate Capability and Long Cycling Stability. Small, 2016, 12, 1359-1368.	5.2	423
48	MS ₂ (M = Co and Ni) Hollow Spheres with Tunable Interiors for Highâ€”Performance Supercapacitors and Photovoltaics. Advanced Functional Materials, 2014, 24, 2155-2162.	7.8	398
49	A review of key challenges of electrospun scaffolds for tissue-engineering applications. Journal of Tissue Engineering and Regenerative Medicine, 2016, 10, 715-738.	1.3	395
50	Controlled Drug Delivery Systems: Current Status and Future Directions. Molecules, 2021, 26, 5905.	1.7	388
51	The Kirkendall Effect for Engineering Oxygen Vacancy of Hollow Co ₃ O ₄ Nanoparticles toward Highâ€”Performance Portable Zincâ€”Air Batteries. Angewandte Chemie - International Edition, 2019, 58, 13840-13844.	7.2	385
52	In situ growth of NiCo ₂ S ₄ nanosheets on graphene for high-performance supercapacitors. Chemical Communications, 2013, 49, 10178.	2.2	384
53	Design Strategies of Tissue Engineering Scaffolds with Controlled Fiber Orientation. Tissue Engineering, 2007, 13, 1845-1866.	4.9	381
54	Atomically Transition Metals on Selfâ€”Supported Porous Carbon Flake Arrays as Binderâ€”Free Air Cathode for Wearable Zincâ€”Air Batteries. Advanced Materials, 2019, 31, e1808267.	11.1	380

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55	Electrospun nanostructured scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2009, 5, 2884-2893.	4.1	379
56	Electrospinning for tissue engineering applications. <i>Progress in Materials Science</i> , 2021, 117, 100721.	16.0	378
57	Electrospun Nanofiber Fabrication as Synthetic Extracellular Matrix and Its Potential for Vascular Tissue Engineering. <i>Tissue Engineering</i> , 2004, 10, 1160-1168.	4.9	367
58	Nano-Featured Scaffolds for Tissue Engineering: A Review of Spinning Methodologies. <i>Tissue Engineering</i> , 2006, 12, 435-447.	4.9	360
59	Preparation of Core-Shell Structured PCL-r-Gelatin Bi-Component Nanofibers by Coaxial Electrospinning. <i>Chemistry of Materials</i> , 2004, 16, 3406-3409.	3.2	359
60	Advances in drug delivery via electrospun and electrosprayed nanomaterials. <i>International Journal of Nanomedicine</i> , 2013, 8, 2997.	3.3	351
61	Nanostructured ceramics by electrospinning. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	349
62	Fabrication of Spinel One-Dimensional Architectures by Single-Spinneret Electrospinning for Energy Storage Applications. <i>ACS Nano</i> , 2015, 9, 1945-1954.	7.3	349
63	Recent progress in flexible wearable solar cells for self-powered electronic devices. <i>Energy and Environmental Science</i> , 2020, 13, 685-743.	15.6	340
64	Fabrication and Endothelialization of Collagen-Blended Biodegradable Polymer Nanofibers: Potential Vascular Graft for Blood Vessel Tissue Engineering. <i>Tissue Engineering</i> , 2005, 11, 1574-1588.	4.9	338
65	Bioresorbable composite bone paste using polysaccharide based nano hydroxyapatite. <i>Biomaterials</i> , 2004, 25, 3829-3835.	5.7	335
66	Applications of conducting polymers and their issues in biomedical engineering. <i>Journal of the Royal Society Interface</i> , 2010, 7, S559-79.	1.5	329
67	Potential-induced degradation in photovoltaic modules: a critical review. <i>Energy and Environmental Science</i> , 2017, 10, 43-68.	15.6	329
68	Multi-functional electrospun nanofibres for advances in tissue regeneration, energy conversion & storage, and water treatment. <i>Chemical Society Reviews</i> , 2016, 45, 1225-1241.	18.7	325
69	Nanostructured Nb ₂ O ₅ Polymorphs by Electrospinning for Rechargeable Lithium Batteries. <i>Journal of Physical Chemistry C</i> , 2010, 114, 664-671.	1.5	320
70	Electrospun nanofibrous polysulfone membranes as pre-filters: Particulate removal. <i>Journal of Membrane Science</i> , 2007, 289, 210-219.	4.1	317
71	Nanobiomaterial applications in orthopedics. <i>Journal of Orthopaedic Research</i> , 2007, 25, 11-22.	1.2	316
72	Applications of Polymer Nanofibers in Biomedicine and Biotechnology. <i>Applied Biochemistry and Biotechnology</i> , 2005, 125, 147-158.	1.4	309

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73	A review of conventional, advanced, and smart glazing technologies and materials for improving indoor environment. <i>Solar Energy Materials and Solar Cells</i> , 2017, 159, 26-51.	3.0	307
74	The fabrication of nano-hydroxyapatite on PLGA and PLGA/collagen nanofibrous composite scaffolds and their effects in osteoblastic behavior for bone tissue engineering. <i>Bone</i> , 2009, 45, 4-16.	1.4	302
75	An aligned nanofibrous collagen scaffold by electrospinning and its effects on in vitro fibroblast culture. <i>Journal of Biomedical Materials Research - Part A</i> , 2006, 79A, 456-463.	2.1	295
76	Mesenchymal stem cell differentiation to neuronal cells on electrospun nanofibrous substrates for nerve tissue engineering. <i>Biomaterials</i> , 2009, 30, 4996-5003.	5.7	293
77	Controlled electron injection and transport at materials interfaces in dye sensitized solar cells. <i>Materials Science and Engineering Reports</i> , 2009, 63, 81-99.	14.8	285
78	The Kirkendall Effect for Engineering Oxygen Vacancy of Hollow Co_3O_4 Nanoparticles toward High Performance Portable Zinc-Air Batteries. <i>Angewandte Chemie</i> , 2019, 131, 13978-13982.	1.6	284
79	Technological advances in electrospinning of nanofibers. <i>Science and Technology of Advanced Materials</i> , 2011, 12, 013002.	2.8	283
80	Interaction of cells and nanofiber scaffolds in tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008, 84B, 34-48.	1.6	281
81	Morphologically Robust NiFe_2O_4 Nanofibers as High Capacity Li-Ion Battery Anode Material. <i>ACS Applied Materials & Interfaces</i> , 2013, 5, 9957-9963.	4.0	278
82	Electrical Stimulation of Nerve Cells Using Conductive Nanofibrous Scaffolds for Nerve Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2009, 15, 3605-3619.	1.6	277
83	Nanostructured biocomposite substrates by electrospinning and electro spraying for the mineralization of osteoblasts. <i>Biomaterials</i> , 2009, 30, 2085-2094.	5.7	276
84	Structure and properties of electrospun PLLA single nanofibres. <i>Nanotechnology</i> , 2005, 16, 208-213.	1.3	273
85	Hierarchical electrospun nanofibers for energy harvesting, production and environmental remediation. <i>Energy and Environmental Science</i> , 2014, 7, 3192-3222.	15.6	271
86	Aligned and random nanofibrous substrate for the in vitro culture of Schwann cells for neural tissue engineering. <i>Acta Biomaterialia</i> , 2009, 5, 2560-2569.	4.1	267
87	Electrospun composite nanofibers and their multifaceted applications. <i>Journal of Materials Chemistry</i> , 2012, 22, 12953.	6.7	267
88	Production of drinking water from saline water by air-gap membrane distillation using polyvinylidene fluoride nanofiber membrane. <i>Journal of Membrane Science</i> , 2008, 311, 1-6.	4.1	265
89	Surface-aminated electrospun nanofibers enhance adhesion and expansion of human umbilical cord blood hematopoietic stem/progenitor cells. <i>Biomaterials</i> , 2006, 27, 6043-6051.	5.7	263
90	Stable immobilization of rat hepatocyte spheroids on galactosylated nanofiber scaffold. <i>Biomaterials</i> , 2005, 26, 2537-2547.	5.7	261

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91	Electrospun Biocomposite Nanofibrous Scaffolds for Neural Tissue Engineering. Tissue Engineering - Part A, 2008, 14, 1787-1797.	1.6	261
92	Conductive polymer ultrafine fibers via electrospinning: Preparation, physical properties and applications. Progress in Materials Science, 2021, 115, 100704.	16.0	254
93	Cobalt Sulfide Nanosheet/Graphene/Carbon Nanotube Nanocomposites as Flexible Electrodes for Hydrogen Evolution. Angewandte Chemie - International Edition, 2014, 53, 12594-12599.	7.2	252
94	Death by waste: Fashion and textile circular economy case. Science of the Total Environment, 2020, 718, 137317.	3.9	252
95	Electrospun Fe_2O_3 nanorods as a stable, high capacity anode material for Li-ion batteries. Journal of Materials Chemistry, 2012, 22, 12198.	6.7	249
96	Electrospun carbon nanofibers and their hybrid composites as advanced materials for energy conversion and storage. Nano Energy, 2016, 22, 361-395.	8.2	248
97	Facile Fabrication of TiO_2 -Graphene Composite with Enhanced Photovoltaic and Photocatalytic Properties by Electrospinning. ACS Applied Materials & Interfaces, 2012, 4, 581-585.	4.0	247
98	A dynamic liquid support system for continuous electrospun yarn fabrication. Polymer, 2007, 48, 3400-3405.	1.8	246
99	Hierarchical MnO_2 nanowire/graphene hybrid fibers with excellent electrochemical performance for flexible solid-state supercapacitors. Journal of Power Sources, 2016, 306, 481-488.	4.0	246
100	Highly Efficient Nanoporous TiO_2 -Polythiophene Hybrid Solar Cells Based on Interfacial Modification Using a Metal-Free Organic Dye. Advanced Materials, 2009, 21, 994-1000.	11.1	243
101	Electrospun conducting polymer nanofibers and electrical stimulation of nerve stem cells. Journal of Bioscience and Bioengineering, 2011, 112, 501-507.	1.1	242
102	Guided orientation of cardiomyocytes on electrospun aligned nanofibers for cardiac tissue engineering. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2011, 98B, 379-386.	1.6	241
103	Controlled release of bone morphogenetic protein 2 and dexamethasone loaded in core-shell PLLA-collagen fibers for use in bone tissue engineering. Acta Biomaterialia, 2012, 8, 763-771.	4.1	241
104	Biomimetic electrospun nanofibers for tissue regeneration. Biomedical Materials (Bristol), 2006, 1, R45-R53.	1.7	238
105	Recent progress and remaining challenges in post-combustion CO_2 capture using metal-organic frameworks (MOFs). Progress in Energy and Combustion Science, 2020, 80, 100849.	15.8	235
106	Fabrication of nanofibers with antimicrobial functionality used as filters: protection against bacterial contaminants. Biotechnology and Bioengineering, 2007, 97, 1357-1365.	1.7	234
107	Electronic and Defective Engineering of Electrospun CaMnO_3 Nanotubes for Enhanced Oxygen Electrocatalysis in Rechargeable Zinc-Air Batteries. Advanced Energy Materials, 2018, 8, 1800612.	10.2	234
108	A simple aloe vera plant-extracted microwave and conventional combustion synthesis: Morphological, optical, magnetic and catalytic properties of CoFe_2O_4 nanostructures. Journal of Molecular Structure, 2014, 1076, 188-200.	1.8	226

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109	Bionic Single-Electrode Electronic Skin Unit Based on Piezoelectric Nanogenerator. ACS Nano, 2018, 12, 8588-8596.	7.3	226
110	Advances in injectable self-healing biomedical hydrogels. Acta Biomaterialia, 2019, 90, 1-20.	4.1	226
111	Biocompatible Nanofiber Matrices for the Engineering of a Dermal Substitute for Skin Regeneration. Tissue Engineering, 2005, 11, 847-854.	4.9	222
112	Activated carbons derived from coconut shells as high energy density cathode material for Li-ion capacitors. Scientific Reports, 2013, 3, 3002.	1.6	222
113	Nanobioengineered Electrospun Composite Nanofibers and Osteoblasts for Bone Regeneration. Artificial Organs, 2008, 32, 388-397.	1.0	221
114	Precipitation of nanohydroxyapatite on PLLA/PBLG/Collagen nanofibrous structures for the differentiation of adipose derived stem cells to osteogenic lineage. Biomaterials, 2012, 33, 846-855.	5.7	220
115	In vitro study of human vascular endothelial cell function on materials with various surface roughness. Journal of Biomedical Materials Research Part B, 2004, 71A, 154-161.	3.0	219
116	Dyeing and antimicrobial characteristics of chitosan treated wool fabrics with henna dye. Carbohydrate Polymers, 2009, 75, 646-650.	5.1	219
117	Electrospun nanofibers as a platform for multifunctional, hierarchically organized nanocomposite. Composites Science and Technology, 2009, 69, 1804-1817.	3.8	219
118	Preparation of nitrogen- and phosphorous co-doped carbon microspheres and their superior performance as anode in sodium-ion batteries. Carbon, 2016, 99, 556-563.	5.4	218
119	Spray deposition of electrospun TiO ₂ nanorods for dye-sensitized solar cell. Nanotechnology, 2007, 18, 365709.	1.3	216
120	Tissue engineered plant extracts as nanofibrous wound dressing. Biomaterials, 2013, 34, 724-734.	5.7	216
121	Electrospun hollow nanofibers for advanced secondary batteries. Nano Energy, 2017, 39, 111-139.	8.2	214
122	Additive manufacturing of TiAl ₆ V parts through laser metal deposition (LMD): Process, microstructure, and mechanical properties. Journal of Alloys and Compounds, 2019, 804, 163-191.	2.8	214
123	Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. Journal of Materials Science, 2010, 45, 6283-6312.	1.7	213
124	Nb ₂ O ₅ Photoelectrodes for Dye-Sensitized Solar Cells: Choice of the Polymorph. Journal of Physical Chemistry C, 2010, 114, 21795-21800.	1.5	213
125	Characterization of neural stem cells on electrospun poly(L-lactic acid) nanofibrous scaffold. Journal of Biomaterials Science, Polymer Edition, 2004, 15, 1483-1497.	1.9	212
126	Multifunctional carbon nanotubes in water treatment: The present, past and future. Desalination, 2014, 354, 160-179.	4.0	210

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127	Engineering Poly(lactide)â€“Lignin Nanofibers with Antioxidant Activity for Biomedical Application. ACS Sustainable Chemistry and Engineering, 2016, 4, 5268-5276.	3.2	209
128	Polypyrroleâ€“contained electrospun conductive nanofibrous membranes for cardiac tissue engineering. Journal of Biomedical Materials Research - Part A, 2011, 99A, 376-385.	2.1	208
129	Surface modified nonwoven polysulphone (PSU) fiber mesh by electrospinning: A novel affinity membrane. Journal of Membrane Science, 2006, 272, 179-187.	4.1	207
130	Current status and future directions of fused filament fabrication. Journal of Manufacturing Processes, 2020, 55, 288-306.	2.8	207
131	High Aspect Ratio Electrospun CuO Nanofibers as Anode Material for Lithium-Ion Batteries with Superior Cycleability. Journal of Physical Chemistry C, 2012, 116, 18087-18092.	1.5	202
132	Thermally-induced two-way shape memory polymers: Mechanisms, structures, and applications. Chemical Engineering Journal, 2019, 374, 706-720.	6.6	200
133	Antioxidant, Antimicrobial and Antiviral Properties of Herbal Materials. Antioxidants, 2020, 9, 1309.	2.2	199
134	In Vitro Culture of Human Dermal Fibroblasts on Electrospun Polycaprolactone Collagen Nanofibrous Membrane. Artificial Organs, 2006, 30, 440-446.	1.0	197
135	Polymer-based composites by electrospinning: Preparation & functionalization with nanocarbons. Progress in Polymer Science, 2018, 86, 40-84.	11.8	197
136	Electrospun fibre bundle made of aligned nanofibres over two fixed points. Nanotechnology, 2005, 16, 1878-1884.	1.3	195
137	Novel hollow mesoporous 1D TiO2 nanofibers as photovoltaic and photocatalytic materials. Nanoscale, 2012, 4, 1707.	2.8	194
138	Surface modified electrospun nanofibrous scaffolds for nerve tissue engineering. Nanotechnology, 2008, 19, 455102.	1.3	193
139	Stem cell differentiation to epidermal lineages on electrospun nanofibrous substrates for skin tissue engineering. Acta Biomaterialia, 2011, 7, 3113-3122.	4.1	192
140	Electrospinning and electrospray of bio-based and natural polymers for biomaterials development. Materials Science and Engineering C, 2018, 92, 969-982.	3.8	192
141	The potential of knitting for engineering compositesâ€“a review. Composites Part A: Applied Science and Manufacturing, 2000, 31, 197-220.	3.8	191
142	Porous tubular structures with controlled fibre orientation using a modified electrospinning method. Nanotechnology, 2005, 16, 918-924.	1.3	191
143	Preparation and characterization of nanofibrous filtering media. Journal of Membrane Science, 2006, 283, 209-218.	4.1	191
144	Drug delivery vehicles on a nano-engineering perspective. Materials Science and Engineering C, 2014, 41, 178-195.	3.8	189

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145	A review on carbon nanotubes in biosensor devices and their applications in medicine. Nanocomposites, 2018, 4, 36-57.	2.2	188
146	Biomaterial strategies for alleviation of myocardial infarction. Journal of the Royal Society Interface, 2012, 9, 1-19.	1.5	186
147	Bio-functionalized PCL nanofibrous scaffolds for nerve tissue engineering. Materials Science and Engineering C, 2010, 30, 1129-1136.	3.8	184
148	Critical Review, Recent Updates on Zeolitic Imidazolate Frameworks (ZIFs) and Its Derivatives for Electrochemical Water Splitting. Advanced Materials, 2022, 34, e2107072.	11.1	183
149	Electrospun TiO ₂ -Graphene Composite Nanofibers as a Highly Durable Insertion Anode for Lithium Ion Batteries. Journal of Physical Chemistry C, 2012, 116, 14780-14788.	1.5	181
150	Functional Self-Assembling Peptide Nanofiber Hydrogels Designed for Nerve Degeneration. ACS Applied Materials & Interfaces, 2016, 8, 2348-2359.	4.0	180
151	Development of decellularized scaffolds for stem cell-driven tissue engineering. Journal of Tissue Engineering and Regenerative Medicine, 2017, 11, 942-965.	1.3	179
152	Substantial breakthroughs on function-led design of advanced materials used in mixed matrix membranes (MMMs): A new horizon for efficient CO ₂ separation. Progress in Materials Science, 2019, 102, 222-295.	16.0	179
153	Electrospun NiO nanofibers as high performance anode material for Li-ion batteries. Journal of Power Sources, 2013, 227, 284-290.	4.0	178
154	Fabrication of porous electrospun nanofibres. Nanotechnology, 2006, 17, 901-908.	1.3	177
155	Structural and Optical Properties of Electrospun TiO ₂ Nanofibers. Chemistry of Materials, 2007, 19, 6536-6542.	3.2	176
156	Electrospun regenerated cellulose nanofiber affinity membrane functionalized with protein A/G for IgG purification. Journal of Membrane Science, 2008, 319, 23-28.	4.1	176
157	Recent Trends in Nanofibrous Membranes and Their Suitability for Air and Water Filtrations. Membranes, 2011, 1, 232-248.	1.4	176
158	Fatigue behaviour of FDM-3D printed polymers, polymeric composites and architected cellular materials. International Journal of Fatigue, 2021, 143, 106007.	2.8	176
159	Electrospun Nanofibers for Air Filtration Applications. Procedia Engineering, 2014, 75, 159-163.	1.2	173
160	Electrospun poly(L-lactide-co-glycolide) biodegradable polymer nanofibre tubes for peripheral nerve regeneration. Nanotechnology, 2004, 15, 1459-1464.	1.3	171
161	Electrospun nanofibers for enhancing structural performance of composite materials. Polymers for Advanced Technologies, 2011, 22, 339-349.	1.6	171
162	Electrospinning of poly(glycerol sebacate)-based nanofibers for nerve tissue engineering. Materials Science and Engineering C, 2017, 70, 1089-1094.	3.8	171

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163	Biomedical applications of additive manufacturing: Present and future. <i>Current Opinion in Biomedical Engineering</i> , 2017, 2, 105-115.	1.8	170
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165	Mineralization of osteoblasts with electrospun collagen/hydroxyapatite nanofibers. <i>Journal of Materials Science: Materials in Medicine</i> , 2008, 19, 2039-2046.	1.7	166
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