

# Venugopal Jayarama Reddy

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

111 papers	10,028 citations	55 h-index	99 g-index
117 ext. papers	10,788 ext. citations	5.9 avg, IF	6.18 L-index

#	Paper	IF	Citations
111	Advances in biomaterials for hepatic tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , <b>2020</b> , 13, 190-196	4.4	6
110	Fabrication of a biomimetic ZeinPDA nanofibrous scaffold impregnated with BMP-2 peptide conjugated TiO nanoparticle for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2018</b> , 12, 991-1001	4.4	22
109	Hydroxyapatite-intertwined hybrid nanofibres for the mineralization of osteoblasts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , <b>2017</b> , 11, 1853-1864	4.4	8
108	3D Fabrication of Polymeric Scaffolds for Regenerative Therapy. <i>ACS Biomaterials Science and Engineering</i> , <b>2017</b> , 3, 1175-1194	5.5	78
107	Antibacterial glass-ionomer cement restorative materials: A critical review on the current status of extended release formulations. <i>Journal of Controlled Release</i> , <b>2017</b> , 262, 317-328	11.7	82
106	Sequel of MgO nanoparticles in PLACL nanofibers for anti-cancer therapy in synergy with curcumin/ $\beta$ -cyclodextrin. <i>Materials Science and Engineering C</i> , <b>2017</b> , 71, 620-628	8.3	40
105	Electrospinning applications from diagnosis to treatment of diabetes. <i>RSC Advances</i> , <b>2016</b> , 6, 83638-83655	5.7	38
104	Highly Stable Bonding of Thiol Monolayers to Hydrogen-Terminated Si via Supercritical Carbon Dioxide: Toward a Super Hydrophobic and Bioresistant Surface. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 24933-45	9.5	10
103	Bio-inspired in situ crosslinking and mineralization of electrospun collagen scaffolds for bone tissue engineering. <i>Biomaterials</i> , <b>2016</b> , 104, 323-38	15.6	131
102	Latent Oxidative Polymerization of Catecholamines as Potential Cross-linkers for Biocompatible and Multifunctional Biopolymer Scaffolds. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2016</b> , 8, 32266-32281	9.5	25
101	A Patient-Inspired Ex Vivo Liver Tissue Engineering Approach with Autologous Mesenchymal Stem Cells and Hepatogenic Serum. <i>Advanced Healthcare Materials</i> , <b>2016</b> , 5, 1058-70	10.1	20
100	Minocycline Loaded Hybrid Composites Nanoparticles for Mesenchymal Stem Cells Differentiation into Osteogenesis. <i>International Journal of Molecular Sciences</i> , <b>2016</b> , 17,	6.3	9
99	A bird's-eye view on the use of electrospun nanofibrous scaffolds for bone tissue engineering: Current state-of-the-art, emerging directions and future trends. <i>Nanomedicine: Nanotechnology, Biology, and Medicine</i> , <b>2016</b> , 12, 2181-2200	6	84
98	Recent advancements in nanotechnological strategies in selection, design and delivery of biomolecules for skin regeneration. <i>Materials Science and Engineering C</i> , <b>2016</b> , 67, 747-765	8.3	55
97	Elastomeric core/shell nanofibrous cardiac patch as a biomimetic support for infarcted porcine myocardium. <i>Tissue Engineering - Part A</i> , <b>2015</b> , 21, 1288-98	3.9	37
96	Deposition of zwitterionic polymer brushes in a dense gas medium. <i>Journal of Colloid and Interface Science</i> , <b>2015</b> , 448, 156-62	9.3	6
95	Cardiogenic differentiation of mesenchymal stem cells with gold nanoparticle loaded functionalized nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2015</b> , 134, 346-54	6	74

94	Controlled release of drugs in electrosprayed nanoparticles for bone tissue engineering. <i>Advanced Drug Delivery Reviews</i> , <b>2015</b> , 94, 77-95	18.5	83
93	Breathable Medicine: Pulmonary Mode of Drug Delivery. <i>Journal of Nanoscience and Nanotechnology</i> , <b>2015</b> , 15, 2591-604	1.3	13
92	Biomimetic approaches for cell implantation to the restoration of infarcted myocardium. <i>Nanomedicine</i> , <b>2015</b> , 10, 2907-30	5.6	1
91	Polycaprolactone nanofibers for the controlled release of tetracycline hydrochloride. <i>Materials Letters</i> , <b>2015</b> , 141, 180-186	3.3	116
90	Improved regeneration potential of fibroblasts using ascorbic acid-blended nanofibrous scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2015</b> , 103, 3431-40	5.4	13
89	Controlled release of titanocene into the hybrid nanofibrous scaffolds to prevent the proliferation of breast cancer cells. <i>International Journal of Pharmaceutics</i> , <b>2015</b> , 483, 115-23	6.5	20
88	Biomimetic hybrid nanofibrous substrates for mesenchymal stem cells differentiation into osteogenic cells. <i>Materials Science and Engineering C</i> , <b>2015</b> , 49, 776-785	8.3	23
87	Aloe vera incorporated biomimetic nanofibrous scaffold: a regenerative approach for skin tissue engineering. <i>Iranian Polymer Journal (English Edition)</i> , <b>2014</b> , 23, 237-248	2.3	66
86	Naturally derived biofunctional nanofibrous scaffold for skin tissue regeneration. <i>International Journal of Biological Macromolecules</i> , <b>2014</b> , 68, 135-43	7.9	53
85	Nanofibers coated on acellular tissue-engineered bovine pericardium supports differentiation of mesenchymal stem cells into endothelial cells for tissue engineering. <i>Nanomedicine</i> , <b>2014</b> , 9, 623-34	5.6	11
84	Precipitation of hydroxyapatite on electrospun polycaprolactone/aloe vera/silk fibroin nanofibrous scaffolds for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , <b>2014</b> , 29, 46-58	2.9	58
83	Synthesis and applications of multifunctional composite nanomaterials <b>2014</b> , 9,		42
82	Functionalized hybrid nanofibers to mimic native ECM for tissue engineering applications. <i>Applied Surface Science</i> , <b>2014</b> , 322, 162-168	6.7	61
81	Biologically improved nanofibrous scaffolds for cardiac tissue engineering. <i>Materials Science and Engineering C</i> , <b>2014</b> , 44, 268-77	8.3	62
80	Curcumin- and natural extract-loaded nanofibres for potential treatment of lung and breast cancer: in vitro efficacy evaluation. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2014</b> , 25, 985-98	3.5	55
79	A nanoscaffold impregnated with human wharton's jelly stem cells or its secretions improves healing of wounds. <i>Journal of Cellular Biochemistry</i> , <b>2014</b> , 115, 794-803	4.7	32
78	Cross-linking of protein scaffolds for therapeutic applications: PCL nanofibers delivering riboflavin for protein cross-linking. <i>Journal of Materials Chemistry B</i> , <b>2014</b> , 2, 1626-1633	7.3	20
77	Herbally derived polymeric nanofibrous scaffolds for bone tissue regeneration. <i>Journal of Applied Polymer Science</i> , <b>2014</b> , 131, n/a-n/a	2.9	27

76	Biocomposite nanofibrous strategies for the controlled release of biomolecules for skin tissue regeneration. <i>International Journal of Nanomedicine</i> , <b>2014</b> , 9, 4709-22	7.3	26
75	Low frequency magnetic force augments hepatic differentiation of mesenchymal stem cells on a biomagnetic nanofibrous scaffold. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2014</b> , 25, 2579-89	4.5	7
74	Polycaprolactone/oligomer compound scaffolds for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2014</b> , 102, 3713-25	5.4	23
73	Gold nanoparticle loaded hybrid nanofibers for cardiogenic differentiation of stem cells for infarcted myocardium regeneration. <i>Macromolecular Bioscience</i> , <b>2014</b> , 14, 515-25	5.5	86
72	Novel and simple methodology to fabricate porous and buckled fibrous structures for biomedical applications. <i>Polymer</i> , <b>2014</b> , 55, 5837-5842	3.9	22
71	Aloe Vera/Silk Fibroin/Hydroxyapatite Incorporated Electrospun Nanofibrous Scaffold for Enhanced Osteogenesis. <i>Journal of Biomaterials and Tissue Engineering</i> , <b>2014</b> , 4, 9-19	0.3	21
70	Mimicking native extracellular matrix with phytic acid-crosslinked protein nanofibers for cardiac tissue engineering. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 366-75	5.5	51
69	Biomimetic acellular detoxified glutaraldehyde cross-linked bovine pericardium for tissue engineering. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1561-72	8.3	26
68	Electrospun inorganic and polymer composite nanofibers for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2013</b> , 24, 365-85	3.5	54
67	Trans-differentiation of human mesenchymal stem cells generates functional hepatospheres on poly(L-lactic acid)-co-poly(ε-caprolactone)/collagen nanofibrous scaffolds. <i>Journal of Materials Chemistry B</i> , <b>2013</b> , 1, 3972-3984	7.3	55
66	Click chemistry approach for fabricating PVA/gelatin nanofibers for the differentiation of ADSCs to keratinocytes. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2013</b> , 24, 2863-71	4.5	21
65	Mimicking nanofibrous hybrid bone substitute for mesenchymal stem cells differentiation into osteogenesis. <i>Macromolecular Bioscience</i> , <b>2013</b> , 13, 696-706	5.5	35
64	Expression of cardiac proteins in neonatal cardiomyocytes on PGS/fibrinogen core/shell substrate for Cardiac tissue engineering. <i>International Journal of Cardiology</i> , <b>2013</b> , 167, 1461-8	3.2	70
63	Xylan polysaccharides fabricated into nanofibrous substrate for myocardial infarction. <i>Materials Science and Engineering C</i> , <b>2013</b> , 33, 1325-31	8.3	30
62	Nanofibrous structured biomimetic strategies for skin tissue regeneration. <i>Wound Repair and Regeneration</i> , <b>2013</b> , 21, 1-16	3.6	120
61	Electrosprayed hydroxyapatite on polymer nanofibers to differentiate mesenchymal stem cells to osteogenesis. <i>Journal of Biomaterials Science, Polymer Edition</i> , <b>2013</b> , 24, 170-84	3.5	34
60	Vitamin B12 loaded polycaprolactone nanofibers: a novel transdermal route for the water soluble energy supplement delivery. <i>International Journal of Pharmaceutics</i> , <b>2013</b> , 444, 70-6	6.5	84
59	Centrifugal spun ultrafine fibrous web as a potential drug delivery vehicle. <i>EXPRESS Polymer Letters</i> , <b>2013</b> , 7, 238-248	3.4	77

58	Buckled structures and 5-azacytidine enhance cardiogenic differentiation of adipose-derived stem cells. <i>Nanomedicine</i> , <b>2013</b> , 8, 1985-97	5.6	17
57	Precipitation of nanohydroxyapatite on PLLA/PBLG/Collagen nanofibrous structures for the differentiation of adipose derived stem cells to osteogenic lineage. <i>Biomaterials</i> , <b>2012</b> , 33, 846-55	15.6	198
56	Advances in polymeric systems for tissue engineering and biomedical applications. <i>Macromolecular Bioscience</i> , <b>2012</b> , 12, 286-311	5.5	133
55	Biomimetic composites and stem cells interaction for bone and cartilage tissue regeneration. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 5239		38
54	Electrospun composite nanofibers and their multifaceted applications. <i>Journal of Materials Chemistry</i> , <b>2012</b> , 22, 12953		235
53	Minimally invasive injectable short nanofibers of poly(glycerol sebacate) for cardiac tissue engineering. <i>Nanotechnology</i> , <b>2012</b> , 23, 385102	3.4	82
52	Composite poly-L-lactic acid/poly-(D,L)-DL-aspartic acid/collagen nanofibrous scaffolds for dermal tissue regeneration. <i>Materials Science and Engineering C</i> , <b>2012</b> , 32, 1443-51	8.3	27
51	Biomaterial strategies for alleviation of myocardial infarction. <i>Journal of the Royal Society Interface</i> , <b>2012</b> , 9, 1-19	4.1	158
50	Minimally invasive cell-seeded biomaterial systems for injectable/epicardial implantation in ischemic heart disease. <i>International Journal of Nanomedicine</i> , <b>2012</b> , 7, 5969-94	7.3	31
49	Polysaccharide nanofibrous scaffolds as a model for in vitro skin tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2012</b> , 23, 1511-9	4.5	32
48	Human umbilical cord Wharton's jelly stem cells undergo enhanced chondrogenic differentiation when grown on nanofibrous scaffolds and in a sequential two-stage culture medium environment. <i>Stem Cell Reviews and Reports</i> , <b>2012</b> , 8, 195-209	6.4	82
47	Controlled release of bone morphogenetic protein 2 and dexamethasone loaded in core-shell PLLACL-collagen fibers for use in bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2012</b> , 8, 763-71	10.8	219
46	Practical Considerations for Medical Applications using Biological Grafts and their Derivatives. <i>Materials Research Society Symposia Proceedings</i> , <b>2012</b> , 1418, 215		
45	Fabrication of a nanofibrous scaffold with improved bioactivity for culture of human dermal fibroblasts for skin regeneration. <i>Biomedical Materials (Bristol)</i> , <b>2011</b> , 6, 015001	3.5	137
44	Elastomeric electrospun scaffolds of poly(L-lactide-co-trimethylene carbonate) for myocardial tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2011</b> , 22, 1689-99	4.5	39
43	Self crimped and aligned fibers. <i>Materials Today</i> , <b>2011</b> , 14, 226-229	21.8	26
42	Evaluation of the Biocompatibility of PLACL/Collagen Nanostructured Matrices with Cardiomyocytes as a Model for the Regeneration of Infarcted Myocardium. <i>Advanced Functional Materials</i> , <b>2011</b> , 21, 2291-2300	15.6	54
41	Osteoblast mineralization with composite nanofibrous substrate for bone tissue regeneration. <i>Cell Biology International</i> , <b>2011</b> , 35, 73-80	4.5	21

40	Osteogenic differentiation of human Wharton's jelly stem cells on nanofibrous substrates in vitro. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 71-81	3.9	30
39	Poly(Glycerol sebacate)/gelatin core/shell fibrous structure for regeneration of myocardial infarction. <i>Tissue Engineering - Part A</i> , <b>2011</b> , 17, 1363-73	3.9	114
38	Biomimetic material strategies for cardiac tissue engineering. <i>Materials Science and Engineering C</i> , <b>2011</b> , 31, 503-513	8.3	63
37	Nanofiber-reinforced biological conduit in cardiac surgery: preliminary report. <i>Asian Cardiovascular and Thoracic Annals</i> , <b>2011</b> , 19, 207-12	0.6	3
36	Smart polymeric nanofibers for topical delivery of levothyroxine. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , <b>2010</b> , 13, 400-10	3.4	37
35	Biomimetic hydroxyapatite-containing composite nanofibrous substrates for bone tissue engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , <b>2010</b> , 368, 2065-81	3	122
34	Applications of conducting polymers and their issues in biomedical engineering. <i>Journal of the Royal Society Interface</i> , <b>2010</b> , 7 Suppl 5, S559-79	4.1	260
33	Multimodal biomaterial strategies for regeneration of infarcted myocardium. <i>Journal of Materials Chemistry</i> , <b>2010</b> , 20, 8819		20
32	Agave sisalana, a biosorbent for the adsorption of Reactive Red 120 from aqueous solution. <i>Journal of the Textile Institute</i> , <b>2010</b> , 101, 414-422	1.5	12
31	Enhanced biomineralization in osteoblasts on a novel electrospun biocomposite nanofibrous substrate of hydroxyapatite/collagen/chitosan. <i>Tissue Engineering - Part A</i> , <b>2010</b> , 16, 1949-60	3.9	100
30	Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. <i>Journal of Materials Science</i> , <b>2010</b> , 45, 6283-6312	4.3	188
29	Simultaneous electrospin-electrosprayed biocomposite nanofibrous scaffolds for bone tissue regeneration. <i>Acta Biomaterialia</i> , <b>2010</b> , 6, 4100-9	10.8	73
28	Nanofibrous substrates support colony formation and maintain stemness of human embryonic stem cells. <i>Journal of Cellular and Molecular Medicine</i> , <b>2009</b> , 13, 3475-84	5.6	48
27	Prediction of water retention capacity of hydrolysed electrospun polyacrylonitrile fibers using statistical model and artificial neural network. <i>Journal of Applied Polymer Science</i> , <b>2009</b> , 113, 3397-3404	2.9	20
26	Electrospun nanostructured scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2884-93	10.8	340
25	Dyeing and antimicrobial characteristics of chitosan treated wool fabrics with henna dye. <i>Carbohydrate Polymers</i> , <b>2009</b> , 75, 646-650	10.3	180
24	Nanostructured biocomposite substrates by electrospinning and electrospraying for the mineralization of osteoblasts. <i>Biomaterials</i> , <b>2009</b> , 30, 2085-94	15.6	253
23	Mesenchymal stem cell differentiation to neuronal cells on electrospun nanofibrous substrates for nerve tissue engineering. <i>Biomaterials</i> , <b>2009</b> , 30, 4996-5003	15.6	262

22	Aligned and random nanofibrous substrate for the in vitro culture of Schwann cells for neural tissue engineering. <i>Acta Biomaterialia</i> , <b>2009</b> , 5, 2560-9	10.8	235
21	Continuous nanostructures for the controlled release of drugs. <i>Current Pharmaceutical Design</i> , <b>2009</b> , 15, 1799-808	3.3	47
20	Nanobioengineered electrospun composite nanofibers and osteoblasts for bone regeneration. <i>Artificial Organs</i> , <b>2008</b> , 32, 388-97	2.6	202
19	Electrospun biocomposite nanofibrous scaffolds for neural tissue engineering. <i>Tissue Engineering - Part A</i> , <b>2008</b> , 14, 1787-97	3.9	226
18	Nanotechnology for nanomedicine and delivery of drugs. <i>Current Pharmaceutical Design</i> , <b>2008</b> , 14, 2184-200	3.9	78
17	Mineralization of osteoblasts with electrospun collagen/hydroxyapatite nanofibers. <i>Journal of Materials Science: Materials in Medicine</i> , <b>2008</b> , 19, 2039-46	4.5	147
16	Electrospun-modified nanofibrous scaffolds for the mineralization of osteoblast cells. <i>Journal of Biomedical Materials Research - Part A</i> , <b>2008</b> , 85, 408-17	5.4	111
15	Interaction of cells and nanofiber scaffolds in tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , <b>2008</b> , 84, 34-48	3.5	242
14	Electrospun biomimetic nanocomposite nanofibers of hydroxyapatite/chitosan for bone tissue engineering. <i>Biomaterials</i> , <b>2008</b> , 29, 4314-22	15.6	572
13	Surface modified electrospun nanofibrous scaffolds for nerve tissue engineering. <i>Nanotechnology</i> , <b>2008</b> , 19, 455102	3.4	168
12	Biocomposite nanofibres and osteoblasts for bone tissue engineering. <i>Nanotechnology</i> , <b>2007</b> , 18, 055101	3.4	137
11	In vitro culture of human dermal fibroblasts on electrospun polycaprolactone collagen nanofibrous membrane. <i>Artificial Organs</i> , <b>2006</b> , 30, 440-6	2.6	173
10	Crosslinking of the electrospun gelatin nanofibers. <i>Polymer</i> , <b>2006</b> , 47, 2911-2917	3.9	496
9	Biocompatible nanofiber matrices for the engineering of a dermal substitute for skin regeneration. <i>Tissue Engineering</i> , <b>2005</b> , 11, 847-54		204
8	In vitro study of smooth muscle cells on polycaprolactone and collagen nanofibrous matrices. <i>Cell Biology International</i> , <b>2005</b> , 29, 861-7	4.5	145
7	Applications of polymer nanofibers in biomedicine and biotechnology. <i>Applied Biochemistry and Biotechnology</i> , <b>2005</b> , 125, 147-58	3.2	273
6	Characterization of the surface biocompatibility of the electrospun PCL-collagen nanofibers using fibroblasts. <i>Biomacromolecules</i> , <b>2005</b> , 6, 2583-9	6.9	412
5	Inhibition of ATPases enzyme activities on brain disturbing normal oestrous cycle. <i>Neurochemical Research</i> , <b>2005</b> , 30, 315-23	4.6	5



- 4 Fabrication of modified and functionalized polycaprolactone nanofibre scaffolds for vascular tissue engineering. *Nanotechnology*, **2005**, 16, 2138-42 3.4 119
- 3 ROLE OF PHENERGAN IN ABNORMAL SCARS AND KELOIDS. *Journal of Biological Systems*, **2004**, 12, 471-482
- 2 Electrospun nanofibres: Biomedical applications. *Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems*, **2004**, 218, 35-45 7
- 1 The effect of the anti-allergic agent avil on abnormal scar fibroblasts. *Burns*, **1999**, 25, 223-8 2.3 12