

Venugopal Jayarama Reddy

List of Publications by Citations

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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	Electrospun biomimetic nanocomposite nanofibers of hydroxyapatite/chitosan for bone tissue engineering. <i>Biomaterials</i> , 2008 , 29, 4314-22	15.6	572
110	Crosslinking of the electrospun gelatin nanofibers. <i>Polymer</i> , 2006 , 47, 2911-2917	3.9	496
109	Characterization of the surface biocompatibility of the electrospun PCL-collagen nanofibers using fibroblasts. <i>Biomacromolecules</i> , 2005 , 6, 2583-9	6.9	412
108	Electrospun nanostructured scaffolds for bone tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 2884-93	10.8	340
107	Applications of polymer nanofibers in biomedicine and biotechnology. <i>Applied Biochemistry and Biotechnology</i> , 2005 , 125, 147-58	3.2	273
106	Mesenchymal stem cell differentiation to neuronal cells on electrospun nanofibrous substrates for nerve tissue engineering. <i>Biomaterials</i> , 2009 , 30, 4996-5003	15.6	262
105	Applications of conducting polymers and their issues in biomedical engineering. <i>Journal of the Royal Society Interface</i> , 2010 , 7 Suppl 5, S559-79	4.1	260
104	Nanostructured biocomposite substrates by electrospinning and electrospraying for the mineralization of osteoblasts. <i>Biomaterials</i> , 2009 , 30, 2085-94	15.6	253
103	Interaction of cells and nanofiber scaffolds in tissue engineering. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2008 , 84, 34-48	3.5	242
102	Electrospun composite nanofibers and their multifaceted applications. <i>Journal of Materials Chemistry</i> , 2012 , 22, 12953		235
101	Aligned and random nanofibrous substrate for the in vitro culture of Schwann cells for neural tissue engineering. <i>Acta Biomaterialia</i> , 2009 , 5, 2560-9	10.8	235
100	Electrospun biocomposite nanofibrous scaffolds for neural tissue engineering. <i>Tissue Engineering - Part A</i> , 2008 , 14, 1787-97	3.9	226
99	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> , 2012 , 8, 763-71	10.8	219
98	Biocompatible nanofiber matrices for the engineering of a dermal substitute for skin regeneration. <i>Tissue Engineering</i> , 2005 , 11, 847-54		204
97	Nanobioengineered electrospun composite nanofibers and osteoblasts for bone regeneration. <i>Artificial Organs</i> , 2008 , 32, 388-97	2.6	202
96	Precipitation of nanohydroxyapatite on PLLA/PBLG/Collagen nanofibrous structures for the differentiation of adipose derived stem cells to osteogenic lineage. <i>Biomaterials</i> , 2012 , 33, 846-55	15.6	198
95	Science and engineering of electrospun nanofibers for advances in clean energy, water filtration, and regenerative medicine. <i>Journal of Materials Science</i> , 2010 , 45, 6283-6312	4.3	188

94	Dyeing and antimicrobial characteristics of chitosan treated wool fabrics with henna dye. <i>Carbohydrate Polymers</i> , 2009 , 75, 646-650	10.3	180
93	In vitro culture of human dermal fibroblasts on electrospun polycaprolactone collagen nanofibrous membrane. <i>Artificial Organs</i> , 2006 , 30, 440-6	2.6	173
92	Surface modified electrospun nanofibrous scaffolds for nerve tissue engineering. <i>Nanotechnology</i> , 2008 , 19, 455102	3.4	168
91	Biomaterial strategies for alleviation of myocardial infarction. <i>Journal of the Royal Society Interface</i> , 2012 , 9, 1-19	4.1	158
90	Mineralization of osteoblasts with electrospun collagen/hydroxyapatite nanofibers. <i>Journal of Materials Science: Materials in Medicine</i> , 2008 , 19, 2039-46	4.5	147
89	In vitro study of smooth muscle cells on polycaprolactone and collagen nanofibrous matrices. <i>Cell Biology International</i> , 2005 , 29, 861-7	4.5	145
88	Fabrication of a nanofibrous scaffold with improved bioactivity for culture of human dermal fibroblasts for skin regeneration. <i>Biomedical Materials (Bristol)</i> , 2011 , 6, 015001	3.5	137
87	Biocomposite nanofibres and osteoblasts for bone tissue engineering. <i>Nanotechnology</i> , 2007 , 18, 055101	3.4	137
86	Advances in polymeric systems for tissue engineering and biomedical applications. <i>Macromolecular Bioscience</i> , 2012 , 12, 286-311	5.5	133
85	Bio-inspired in situ crosslinking and mineralization of electrospun collagen scaffolds for bone tissue engineering. <i>Biomaterials</i> , 2016 , 104, 323-38	15.6	131
84	Biomimetic hydroxyapatite-containing composite nanofibrous substrates for bone tissue engineering. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010 , 368, 2065-81	3	122
83	Nanofibrous structured biomimetic strategies for skin tissue regeneration. <i>Wound Repair and Regeneration</i> , 2013 , 21, 1-16	3.6	120
82	Fabrication of modified and functionalized polycaprolactone nanofibre scaffolds for vascular tissue engineering. <i>Nanotechnology</i> , 2005 , 16, 2138-42	3.4	119
81	Polycaprolactone nanofibers for the controlled release of tetracycline hydrochloride. <i>Materials Letters</i> , 2015 , 141, 180-186	3.3	116
80	Poly(Glycerol sebacate)/gelatin core/shell fibrous structure for regeneration of myocardial infarction. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1363-73	3.9	114
79	Electrospun-modified nanofibrous scaffolds for the mineralization of osteoblast cells. <i>Journal of Biomedical Materials Research - Part A</i> , 2008 , 85, 408-17	5.4	111
78	Enhanced biomineralization in osteoblasts on a novel electrospun biocomposite nanofibrous substrate of hydroxyapatite/collagen/chitosan. <i>Tissue Engineering - Part A</i> , 2010 , 16, 1949-60	3.9	100
77	Gold nanoparticle loaded hybrid nanofibers for cardiogenic differentiation of stem cells for infarcted myocardium regeneration. <i>Macromolecular Bioscience</i> , 2014 , 14, 515-25	5.5	86

76	Vitamin B12 loaded polycaprolactone nanofibers: a novel transdermal route for the water soluble energy supplement delivery. <i>International Journal of Pharmaceutics</i> , 2013 , 444, 70-6	6.5	84
75	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> , 2016 , 12, 2181-2200	6	84
74	Controlled release of drugs in electrosprayed nanoparticles for bone tissue engineering. <i>Advanced Drug Delivery Reviews</i> , 2015 , 94, 77-95	18.5	83
73	Antibacterial glass-ionomer cement restorative materials: A critical review on the current status of extended release formulations. <i>Journal of Controlled Release</i> , 2017 , 262, 317-328	11.7	82
72	Minimally invasive injectable short nanofibers of poly(glycerol sebacate) for cardiac tissue engineering. <i>Nanotechnology</i> , 2012 , 23, 385102	3.4	82
71	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> , 2012 , 8, 195-209	6.4	82
70	3D Fabrication of Polymeric Scaffolds for Regenerative Therapy. <i>ACS Biomaterials Science and Engineering</i> , 2017 , 3, 1175-1194	5.5	78
69	Nanotechnology for nanomedicine and delivery of drugs. <i>Current Pharmaceutical Design</i> , 2008 , 14, 2184-2190	3.9	78
68	Centrifugal spun ultrafine fibrous web as a potential drug delivery vehicle. <i>EXPRESS Polymer Letters</i> , 2013 , 7, 238-248	3.4	77
67	Cardiogenic differentiation of mesenchymal stem cells with gold nanoparticle loaded functionalized nanofibers. <i>Colloids and Surfaces B: Biointerfaces</i> , 2015 , 134, 346-54	6	74
66	Simultaneous electrospin-electrosprayed biocomposite nanofibrous scaffolds for bone tissue regeneration. <i>Acta Biomaterialia</i> , 2010 , 6, 4100-9	10.8	73
65	Expression of cardiac proteins in neonatal cardiomyocytes on PGS/fibrinogen core/shell substrate for Cardiac tissue engineering. <i>International Journal of Cardiology</i> , 2013 , 167, 1461-8	3.2	70
64	Aloe vera incorporated biomimetic nanofibrous scaffold: a regenerative approach for skin tissue engineering. <i>Iranian Polymer Journal (English Edition)</i> , 2014 , 23, 237-248	2.3	66
63	Biomimetic material strategies for cardiac tissue engineering. <i>Materials Science and Engineering C</i> , 2011 , 31, 503-513	8.3	63
62	Biologically improved nanofibrous scaffolds for cardiac tissue engineering. <i>Materials Science and Engineering C</i> , 2014 , 44, 268-77	8.3	62
61	Functionalized hybrid nanofibers to mimic native ECM for tissue engineering applications. <i>Applied Surface Science</i> , 2014 , 322, 162-168	6.7	61
60	Precipitation of hydroxyapatite on electrospun polycaprolactone/aloe vera/silk fibroin nanofibrous scaffolds for bone tissue engineering. <i>Journal of Biomaterials Applications</i> , 2014 , 29, 46-58	2.9	58
59	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> , 2014 , 25, 985-98	3.5	55

58	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> , 2013 , 1, 3972-3984	7.3	55
57	Recent advancements in nanotechnological strategies in selection, design and delivery of biomolecules for skin regeneration. <i>Materials Science and Engineering C</i> , 2016 , 67, 747-765	8.3	55
56	Electrospun inorganic and polymer composite nanofibers for biomedical applications. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 365-85	3.5	54
55	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> , 2011 , 21, 2291-2300	15.6	54
54	Naturally derived biofunctional nanofibrous scaffold for skin tissue regeneration. <i>International Journal of Biological Macromolecules</i> , 2014 , 68, 135-43	7.9	53
53	Mimicking native extracellular matrix with phytic acid-crosslinked protein nanofibers for cardiac tissue engineering. <i>Macromolecular Bioscience</i> , 2013 , 13, 366-75	5.5	51
52	Nanofibrous substrates support colony formation and maintain stemness of human embryonic stem cells. <i>Journal of Cellular and Molecular Medicine</i> , 2009 , 13, 3475-84	5.6	48
51	Continuous nanostructures for the controlled release of drugs. <i>Current Pharmaceutical Design</i> , 2009 , 15, 1799-808	3.3	47
50	Synthesis and applications of multifunctional composite nanomaterials 2014 , 9,		42
49	Sequel of MgO nanoparticles in PLACL nanofibers for anti-cancer therapy in synergy with curcumin/β-cyclodextrin. <i>Materials Science and Engineering C</i> , 2017 , 71, 620-628	8.3	40
48	Elastomeric electrospun scaffolds of poly(L-lactide-co-trimethylene carbonate) for myocardial tissue engineering. <i>Journal of Materials Science: Materials in Medicine</i> , 2011 , 22, 1689-99	4.5	39
47	Electrospinning applications from diagnosis to treatment of diabetes. <i>RSC Advances</i> , 2016 , 6, 83638-83655	5.7	38
46	Biomimetic composites and stem cells interaction for bone and cartilage tissue regeneration. <i>Journal of Materials Chemistry</i> , 2012 , 22, 5239		38
45	Elastomeric core/shell nanofibrous cardiac patch as a biomimetic support for infarcted porcine myocardium. <i>Tissue Engineering - Part A</i> , 2015 , 21, 1288-98	3.9	37
44	Smart polymeric nanofibers for topical delivery of levothyroxine. <i>Journal of Pharmacy and Pharmaceutical Sciences</i> , 2010 , 13, 400-10	3.4	37
43	Mimicking nanofibrous hybrid bone substitute for mesenchymal stem cells differentiation into osteogenesis. <i>Macromolecular Bioscience</i> , 2013 , 13, 696-706	5.5	35
42	Electrosprayed hydroxyapatite on polymer nanofibers to differentiate mesenchymal stem cells to osteogenesis. <i>Journal of Biomaterials Science, Polymer Edition</i> , 2013 , 24, 170-84	3.5	34
41	A nanoscaffold impregnated with human wharton's jelly stem cells or its secretions improves healing of wounds. <i>Journal of Cellular Biochemistry</i> , 2014 , 115, 794-803	4.7	32

40	Polysaccharide nanofibrous scaffolds as a model for in vitro skin tissue regeneration. <i>Journal of Materials Science: Materials in Medicine</i> , 2012 , 23, 1511-9	4.5	32
39	Minimally invasive cell-seeded biomaterial systems for injectable/epicardial implantation in ischemic heart disease. <i>International Journal of Nanomedicine</i> , 2012 , 7, 5969-94	7.3	31
38	Xylan polysaccharides fabricated into nanofibrous substrate for myocardial infarction. <i>Materials Science and Engineering C</i> , 2013 , 33, 1325-31	8.3	30
37	Osteogenic differentiation of human Wharton's jelly stem cells on nanofibrous substrates in vitro. <i>Tissue Engineering - Part A</i> , 2011 , 17, 71-81	3.9	30
36	Herbally derived polymeric nanofibrous scaffolds for bone tissue regeneration. <i>Journal of Applied Polymer Science</i> , 2014 , 131, n/a-n/a	2.9	27
35	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> , 2012 , 32, 1443-51	8.3	27
34	Biomimetic acellular detoxified glutaraldehyde cross-linked bovine pericardium for tissue engineering. <i>Materials Science and Engineering C</i> , 2013 , 33, 1561-72	8.3	26
33	Biocomposite nanofibrous strategies for the controlled release of biomolecules for skin tissue regeneration. <i>International Journal of Nanomedicine</i> , 2014 , 9, 4709-22	7.3	26
32	Self crimped and aligned fibers. <i>Materials Today</i> , 2011 , 14, 226-229	21.8	26
31	Latent Oxidative Polymerization of Catecholamines as Potential Cross-linkers for Biocompatible and Multifunctional Biopolymer Scaffolds. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 32266-32281	9.5	25
30	Biomimetic hybrid nanofibrous substrates for mesenchymal stem cells differentiation into osteogenic cells. <i>Materials Science and Engineering C</i> , 2015 , 49, 776-785	8.3	23
29	Polycaprolactone/oligomer compound scaffolds for cardiac tissue engineering. <i>Journal of Biomedical Materials Research - Part A</i> , 2014 , 102, 3713-25	5.4	23
28	Fabrication of a biomimetic Zein/PDA nanofibrous scaffold impregnated with BMP-2 peptide conjugated TiO nanoparticle for bone tissue engineering. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 991-1001	4.4	22
27	Novel and simple methodology to fabricate porous and buckled fibrous structures for biomedical applications. <i>Polymer</i> , 2014 , 55, 5837-5842	3.9	22
26	Click chemistry approach for fabricating PVA/gelatin nanofibers for the differentiation of ADSCs to keratinocytes. <i>Journal of Materials Science: Materials in Medicine</i> , 2013 , 24, 2863-71	4.5	21
25	Osteoblast mineralization with composite nanofibrous substrate for bone tissue regeneration. <i>Cell Biology International</i> , 2011 , 35, 73-80	4.5	21
24	Aloe Vera/Silk Fibroin/Hydroxyapatite Incorporated Electrospun Nanofibrous Scaffold for Enhanced Osteogenesis. <i>Journal of Biomaterials and Tissue Engineering</i> , 2014 , 4, 9-19	0.3	21
23	A Patient-Inspired Ex Vivo Liver Tissue Engineering Approach with Autologous Mesenchymal Stem Cells and Hepatogenic Serum. <i>Advanced Healthcare Materials</i> , 2016 , 5, 1058-70	10.1	20

22	Cross-linking of protein scaffolds for therapeutic applications: PCL nanofibers delivering riboflavin for protein cross-linking. <i>Journal of Materials Chemistry B</i> , 2014 , 2, 1626-1633	7.3	20
21	Controlled release of titanocene into the hybrid nanofibrous scaffolds to prevent the proliferation of breast cancer cells. <i>International Journal of Pharmaceutics</i> , 2015 , 483, 115-23	6.5	20
20	Multimodal biomaterial strategies for regeneration of infarcted myocardium. <i>Journal of Materials Chemistry</i> , 2010 , 20, 8819		20
19	Prediction of water retention capacity of hydrolysed electrospun polyacrylonitrile fibers using statistical model and artificial neural network. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 3397-3404	2.9	20
18	Buckled structures and 5-azacytidine enhance cardiogenic differentiation of adipose-derived stem cells. <i>Nanomedicine</i> , 2013 , 8, 1985-97	5.6	17
17	Breathable Medicine: Pulmonary Mode of Drug Delivery. <i>Journal of Nanoscience and Nanotechnology</i> , 2015 , 15, 2591-604	1.3	13
16	Improved regeneration potential of fibroblasts using ascorbic acid-blended nanofibrous scaffolds. <i>Journal of Biomedical Materials Research - Part A</i> , 2015 , 103, 3431-40	5.4	13
15	Agave sisalana, a biosorbent for the adsorption of Reactive Red 120 from aqueous solution. <i>Journal of the Textile Institute</i> , 2010 , 101, 414-422	1.5	12
14	The effect of the anti-allergic agent avil on abnormal scar fibroblasts. <i>Burns</i> , 1999 , 25, 223-8	2.3	12
13	Nanofibers coated on acellular tissue-engineered bovine pericardium supports differentiation of mesenchymal stem cells into endothelial cells for tissue engineering. <i>Nanomedicine</i> , 2014 , 9, 623-34	5.6	11
12	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 & Interfaces</i> , 2016 , 8, 24933-45	9.5	10
11	Minocycline Loaded Hybrid Composites Nanoparticles for Mesenchymal Stem Cells Differentiation into Osteogenesis. <i>International Journal of Molecular Sciences</i> , 2016 , 17,	6.3	9
10	Hydroxyapatite-intertwined hybrid nanofibres for the mineralization of osteoblasts. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 1853-1864	4.4	8
9	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> , 2014 , 25, 2579-89	4.5	7
8	Electrospun nanofibres: Biomedical applications. <i>Proceedings of the Institution of Mechanical Engineers, Part N: Journal of Nanoengineering and Nanosystems</i> , 2004 , 218, 35-45		7
7	Deposition of zwitterionic polymer brushes in a dense gas medium. <i>Journal of Colloid and Interface Science</i> , 2015 , 448, 156-62	9.3	6
6	Advances in biomaterials for hepatic tissue engineering. <i>Current Opinion in Biomedical Engineering</i> , 2020 , 13, 190-196	4.4	6
5	Inhibition of ATPases enzyme activities on brain disturbing normal oestrous cycle. <i>Neurochemical Research</i> , 2005 , 30, 315-23	4.6	5

- 4 Nanofiber-reinforced biological conduit in cardiac surgery: preliminary report. *Asian Cardiovascular and Thoracic Annals*, **2011**, 19, 207-12 0.6 3
- 3 Biomimetic approaches for cell implantation to the restoration of infarcted myocardium. *Nanomedicine*, **2015**, 10, 2907-30 5.6 1
- 2 Practical Considerations for Medical Applications using Biological Grafts and their Derivatives. *Materials Research Society Symposia Proceedings*, **2012**, 1418, 215
- 1 ROLE OF PHENERGAN IN ABNORMAL SCARS AND KELOIDS. *Journal of Biological Systems*, **2004**, 12, 471-482