Subramanian Sundarrajan

List of Publications by Year
in descending order

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37 papers	3,780 citations	172207 29 h-index	329751 37 g-index
37 all docs	37 docs citations	37 times ranked	5922 citing authors

#	Article	IF	Citations
1	Fabrication and characterization of high flux poly(vinylidene fluoride) electrospun nanofibrous membrane using amphiphilic polyethyleneâ€blockâ€poly(ethylene glycol) copolymer. Journal of Applied Polymer Science, 2021, 138, 50296.	1.3	11
2	Elastomeric Core/Shell Nanofibrous Cardiac Patch as a Biomimetic Support for Infarcted Porcine Myocardium. Tissue Engineering - Part A, 2015, 21, 1288-1298.	1.6	40
3	Gold Nanoparticle Loaded Hybrid Nanofibers for Cardiogenic Differentiation of Stem Cells for Infarcted Myocardium Regeneration. Macromolecular Bioscience, 2014, 14, 515-525.	2.1	102
4	Effective nanostructred morphologies for efficient hybrid solar cells. Solar Energy, 2014, 106, 1-22.	2.9	45
5	Electrospun Nanofibers for Air Filtration Applications. Procedia Engineering, 2014, 75, 159-163.	1.2	173
6	Review: the characterization of electrospun nanofibrous liquid filtration membranes. Journal of Materials Science, 2014, 49, 6143-6159.	1.7	85
7	Hierarchical electrospun nanofibers for energy harvesting, production and environmental remediation. Energy and Environmental Science, 2014, 7, 3192-3222.	15.6	271
8	Mimicking Native Extracellular Matrix with Phytic Acidâ€Crosslinked Protein Nanofibers for Cardiac Tissue Engineering. Macromolecular Bioscience, 2013, 13, 366-375.	2.1	59
9	Electrospun inorganic and polymer composite nanofibers for biomedical applications. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 365-385.	1.9	64
10	Click chemistry approach for fabricating PVA/gelatin nanofibers for the differentiation of ADSCs to keratinocytes. Journal of Materials Science: Materials in Medicine, 2013, 24, 2863-2871.	1.7	25
11	Mimicking Nanofibrous Hybrid Bone Substitute for Mesenchymal Stem Cells Differentiation into Osteogenesis. Macromolecular Bioscience, 2013, 13, 696-706.	2.1	44
12	Expression of cardiac proteins in neonatal cardiomyocytes on PGS/fibrinogen core/shell substrate for Cardiac tissue engineering. International Journal of Cardiology, 2013, 167, 1461-1468.	0.8	81
13	Potential of Engineered Electrospun Nanofiber Membranes for Nanofiltration Applications. Drying Technology, 2013, 31, 163-169.	1.7	26
14	Advancement in Electrospun Nanofibrous Membranes Modification and Their Application in Water Treatment. Membranes, 2013, 3, 266-284.	1.4	126
15	Buckled structures and 5-azacytidine enhance cardiogenic differentiation of adipose-derived stem cells. Nanomedicine, 2013, 8, 1985-1997.	1.7	18
16	Cardiogenic differentiation of mesenchymal stem cells on elastomeric poly (glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142 Td (seba	0.5	61
17	Minimally invasive injectable short nanofibers of poly(glycerol sebacate) for cardiac tissue engineering. Nanotechnology, 2012, 23, 385102.	1.3	92
18	Composite poly-l-lactic acid/poly-(Î±,Î²)-dl-aspartic acid/collagen nanofibrous scaffolds for dermal tissue regeneration. Materials Science and Engineering C, 2012, 32, 1443-1451.	3.8	36

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19	One-Step Synthesis of Hollow Titanate (Sr/Ba) Ceramic Fibers for Detoxification of Nerve Agents. Journal of Nanotechnology, 2012, 2012, 1-7.	1.5	7
20	Minimally invasive cell-seeded biomaterial systems for injectable/epicardial implantation in ischemic heart disease. International Journal of Nanomedicine, 2012, 7, 5969.	3.3	33
21	Progress and perspectives in micro direct methanol fuel cell. International Journal of Hydrogen Energy, 2012, 37, 8765-8786.	3.8	123
22	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
23	Influence of electrospun fiber size on the separation efficiency of thin film nanofiltration composite membrane. Journal of Membrane Science, 2012, 392-393, 101-111.	4.1	149
24	Advances in Polymeric Systems for Tissue Engineering and Biomedical Applications. Macromolecular Bioscience, 2012, 12, 286-311.	2.1	157
25	Poly(Glycerol Sebacate)/Gelatin Core/Shell Fibrous Structure for Regeneration of Myocardial Infarction. Tissue Engineering - Part A, 2011, 17, 1363-1373.	1.6	121
26	Recent Trends in Nanofibrous Membranes and Their Suitability for Air and Water Filtrations. Membranes, 2011, 1, 232-248.	1.4	176
27	Hot pressing of electrospun membrane composite and its influence on separation performance on thin film composite nanofiltration membrane. Desalination, 2011, 279, 201-209.	4.0	122
28	An Update on Nanomaterialsâ€Based Textiles for Protection and Decontamination. Journal of the American Ceramic Society, 2010, 93, 3955-3975.	1.9	111
29	Fabrication of Functionalized Nanofiber Membranes Containing Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 1139-1147.	0.9	20
30	Applications of conducting polymers and their issues in biomedical engineering. Journal of the Royal Society Interface, 2010, 7, S559-79.	1.5	329
31	A Novel Process for the Fabrication of Nanocomposites Membranes. Journal of Nanoscience and Nanotechnology, 2009, 9, 4442-4447.	0.9	18
32	Fabrication of Nanostructured Selfâ€Detoxifying Nanofiber Membranes that Contain Active Polymeric Functional Groups. Macromolecular Rapid Communications, 2009, 30, 1769-1774.	2.0	45
33	One Step Fabrication of MgO Solid and Hollow Submicrometer Fibers Via Electrospinning Method. Journal of the American Ceramic Society, 2009, 92, 2429-2433.	1.9	11
34	Multifunctional membranes based on spinning technologies: the synergy of nanofibers and nanoparticles. Nanotechnology, 2008, 19, 285707.	1.3	74
35	Fabrication of nanofibers with antimicrobial functionality used as filters: protection against bacterial contaminants. Biotechnology and Bioengineering, 2007, 97, 1357-1365.	1.7	234
36	Nanostructured ceramics by electrospinning. Journal of Applied Physics, 2007, 102, .	1.1	349

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37	Functionalized polymer nanofibre membranes for protection from chemical warfare stimulants. Nanotechnology, 2006, 17, 2947-2953.	1.3	122