

# Subramanian Sundarrajan

## List of Publications by Year in descending order

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Version: 2024-02-01

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	Nanostructured ceramics by electrospinning. <i>Journal of Applied Physics</i> , 2007, 102, .	1.1	349
2	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
3	Hierarchical electrospun nanofibers for energy harvesting, production and environmental remediation. <i>Energy and Environmental Science</i> , 2014, 7, 3192-3222.	15.6	271
4	Fabrication of nanofibers with antimicrobial functionality used as filters: protection against bacterial contaminants. <i>Biotechnology and Bioengineering</i> , 2007, 97, 1357-1365.	1.7	234
5	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, 846-855.	5.7	220
6	Recent Trends in Nanofibrous Membranes and Their Suitability for Air and Water Filtrations. <i>Membranes</i> , 2011, 1, 232-248.	1.4	176
7	Electrospun Nanofibers for Air Filtration Applications. <i>Procedia Engineering</i> , 2014, 75, 159-163.	1.2	173
8	Advances in Polymeric Systems for Tissue Engineering and Biomedical Applications. <i>Macromolecular Bioscience</i> , 2012, 12, 286-311.	2.1	157
9	Influence of electrospun fiber size on the separation efficiency of thin film nanofiltration composite membrane. <i>Journal of Membrane Science</i> , 2012, 392-393, 101-111.	4.1	149
10	Advancement in Electrospun Nanofibrous Membranes Modification and Their Application in Water Treatment. <i>Membranes</i> , 2013, 3, 266-284.	1.4	126
11	Progress and perspectives in micro direct methanol fuel cell. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 8765-8786.	3.8	123
12	Functionalized polymer nanofibre membranes for protection from chemical warfare stimulants. <i>Nanotechnology</i> , 2006, 17, 2947-2953.	1.3	122
13	Hot pressing of electrospun membrane composite and its influence on separation performance on thin film composite nanofiltration membrane. <i>Desalination</i> , 2011, 279, 201-209.	4.0	122
14	Poly(Glycerol Sebacate)/Gelatin Core/Shell Fibrous Structure for Regeneration of Myocardial Infarction. <i>Tissue Engineering - Part A</i> , 2011, 17, 1363-1373.	1.6	121
15	An Update on Nanomaterials-Based Textiles for Protection and Decontamination. <i>Journal of the American Ceramic Society</i> , 2010, 93, 3955-3975.	1.9	111
16	Gold Nanoparticle Loaded Hybrid Nanofibers for Cardiogenic Differentiation of Stem Cells for Infarcted Myocardium Regeneration. <i>Macromolecular Bioscience</i> , 2014, 14, 515-525.	2.1	102
17	Minimally invasive injectable short nanofibers of poly(glycerol sebacate) for cardiac tissue engineering. <i>Nanotechnology</i> , 2012, 23, 385102.	1.3	92
18	Review: the characterization of electrospun nanofibrous liquid filtration membranes. <i>Journal of Materials Science</i> , 2014, 49, 6143-6159.	1.7	85

#	ARTICLE	IF	CITATIONS
19	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
20	Multifunctional membranes based on spinning technologies: the synergy of nanofibers and nanoparticles. Nanotechnology, 2008, 19, 285707.	1.3	74
21	Electrospun inorganic and polymer composite nanofibers for biomedical applications. Journal of Biomaterials Science, Polymer Edition, 2013, 24, 365-385.	1.9	64
22	Cardiogenic differentiation of mesenchymal stem cells on elastomeric poly (glycerol) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 622 Td (seba 0.5 61	10.5	622
23	Mimicking Native Extracellular Matrix with Phytic Acidâ€Crosslinked Protein Nanofibers for Cardiac Tissue Engineering. Macromolecular Bioscience, 2013, 13, 366-375.	2.1	59
24	Fabrication of Nanostructured Selfâ€Detoxifying Nanofiber Membranes that Contain Active Polymeric Functional Groups. Macromolecular Rapid Communications, 2009, 30, 1769-1774.	2.0	45
25	Effective nanostructred morphologies for efficient hybrid solar cells. Solar Energy, 2014, 106, 1-22.	2.9	45
26	Mimicking Nanofibrous Hybrid Bone Substitute for Mesenchymal Stem Cells Differentiation into Osteogenesis. Macromolecular Bioscience, 2013, 13, 696-706.	2.1	44
27	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
28	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
29	Minimally invasive cell-seeded biomaterial systems for injectable/epicardial implantation in ischemic heart disease. International Journal of Nanomedicine, 2012, 7, 5969.	3.3	33
30	Potential of Engineered Electrospun Nanofiber Membranes for Nanofiltration Applications. Drying Technology, 2013, 31, 163-169.	1.7	26
31	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
32	Fabrication of Functionalized Nanofiber Membranes Containing Nanoparticles. Journal of Nanoscience and Nanotechnology, 2010, 10, 1139-1147.	0.9	20
33	A Novel Process for the Fabrication of Nanocomposites Membranes. Journal of Nanoscience and Nanotechnology, 2009, 9, 4442-4447.	0.9	18
34	Buckled structures and 5-azacytidine enhance cardiogenic differentiation of adipose-derived stem cells. Nanomedicine, 2013, 8, 1985-1997.	1.7	18
35	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
36	Fabrication and characterization of high flux poly(vinylidene fluoride) electrospun nanofibrous membrane using amphiphilic poly(ethyleneâ€blockâ€poly(ethylene glycol) copolymer. Journal of Applied Polymer Science, 2021, 138, 50296.	1.3	11

#	ARTICLE	IF	CITATIONS
37	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