

Anand Ramamurthi

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.

45
papers

964
citations

21
h-index

29
g-index

49
ext. papers

1,091
ext. citations

6.4
avg, IF

4.59
L-index

#	Paper	IF	Citations
45	Fragment size- and dose-specific effects of hyaluronan on matrix synthesis by vascular smooth muscle cells. <i>Biomaterials</i> , 2006 , 27, 2994-3004	15.6	64
44	Smooth muscle cell adhesion on crosslinked hyaluronan gels. <i>Journal of Biomedical Materials Research Part B</i> , 2002 , 60, 195-205		61
43	Hyaluronic acid cues for functional endothelialization of vascular constructs. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008 , 2, 22-32	4.4	59
42	Elastogenic effects of exogenous hyaluronan oligosaccharides on vascular smooth muscle cells. <i>Biomaterials</i> , 2006 , 27, 5698-707	15.6	59
41	Transforming growth factor beta 1 and hyaluronan oligomers synergistically enhance elastin matrix regeneration by vascular smooth muscle cells. <i>Tissue Engineering - Part A</i> , 2009 , 15, 501-11	3.9	48
40	Ultraviolet light-induced modification of crosslinked hyaluronan gels. <i>Journal of Biomedical Materials Research Part B</i> , 2003 , 66, 317-29		47
39	Tissue engineering and regenerative strategies to replicate biocomplexity of vascular elastic matrix assembly. <i>Tissue Engineering - Part B: Reviews</i> , 2012 , 18, 203-17	7.9	46
38	Lysyl oxidase enhances elastin synthesis and matrix formation by vascular smooth muscle cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2009 , 3, 655-61	4.4	44
37	Multifunctional nanoparticles for doxycycline delivery towards localized elastic matrix stabilization and regenerative repair. <i>Acta Biomaterialia</i> , 2013 , 9, 6511-25	10.8	41
36	Copper nanoparticle cues for biomimetic cellular assembly of crosslinked elastin fibers. <i>Acta Biomaterialia</i> , 2009 , 5, 541-53	10.8	36
35	Benefits of concurrent delivery of hyaluronan and IGF-1 cues to regeneration of crosslinked elastin matrices by adult rat vascular cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2008 , 2, 106-14	4.4	31
34	Elastogenic inductability of smooth muscle cells from a rat model of late stage abdominal aortic aneurysms. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1699-711	3.9	30
33	Induced elastic matrix deposition within three-dimensional collagen scaffolds. <i>Tissue Engineering - Part A</i> , 2011 , 17, 2879-89	3.9	27
32	Nanoparticles for localized delivery of hyaluronan oligomers towards regenerative repair of elastic matrix. <i>Acta Biomaterialia</i> , 2013 , 9, 9292-302	10.8	24
31	Magnetically-responsive, multifunctional drug delivery nanoparticles for elastic matrix regenerative repair. <i>Acta Biomaterialia</i> , 2017 , 52, 171-186	10.8	22
30	Impact of cyclic stretch on induced elastogenesis within collagenous conduits. <i>Tissue Engineering - Part A</i> , 2014 , 20, 1403-15	3.9	22
29	Advances in biomimetic regeneration of elastic matrix structures. <i>Drug Delivery and Translational Research</i> , 2012 , 2, 323-50	6.2	22

28	Aligned electrospun scaffolds and elastogenic factors for vascular cell-mediated elastic matrix assembly. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2012 , 6, 673-86	4.4	22
27	Utility of hyaluronan oligomers and transforming growth factor-beta1 factors for elastic matrix regeneration by aneurysmal rat aortic smooth muscle cells. <i>Tissue Engineering - Part A</i> , 2009 , 15, 3247-60 ^{3,9}		22
26	Induced elastin regeneration by chronically activated smooth muscle cells for targeted aneurysm repair. <i>Acta Biomaterialia</i> , 2010 , 6, 170-8	10.8	22
25	Biomimetic regeneration of elastin matrices using hyaluronan and copper ion cues. <i>Tissue Engineering - Part A</i> , 2009 , 15, 103-13	3.9	21
24	Pro-elastogenic effects of bone marrow mesenchymal stem cell-derived smooth muscle cells on cultured aneurysmal smooth muscle cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 679-693	4.4	20
23	Evaluating smooth muscle cells from CaCl ₂ -induced rat aortal expansions as a surrogate culture model for study of elastogenic induction of human aneurysmal cells. <i>Tissue Engineering - Part A</i> , 2011 , 17, 1945-58	3.9	20
22	Impact of pre-existing elastic matrix on TGF β and HA oligomer-induced regenerative elastin repair by rat aortic smooth muscle cells. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2011 , 5, 85-96 ^{4,4}		17
21	Impact of electrospun conduit fiber diameter and enclosing pouch pore size on vascular constructs grown within rat peritoneal cavities. <i>Tissue Engineering - Part A</i> , 2013 , 19, 809-23	3.9	15
20	Multifunctional, JNK-inhibiting nanotherapeutics for augmented elastic matrix regenerative repair in aortic aneurysms. <i>Drug Delivery and Translational Research</i> , 2018 , 8, 964-984	6.2	10
19	Composition of intraperitoneally implanted electrospun conduits modulates cellular elastic matrix generation. <i>Acta Biomaterialia</i> , 2014 , 10, 163-72	10.8	10
18	Phenotype-based selection of bone marrow mesenchymal stem cell-derived smooth muscle cells for elastic matrix regenerative repair in abdominal aortic aneurysms. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e60-e70	4.4	9
17	Alterations in phenotype and gene expression of adult human aneurysmal smooth muscle cells by exogenous nitric oxide. <i>Experimental Cell Research</i> , 2019 , 384, 111589	4.2	9
16	Perspectives on stem cell-based elastic matrix regenerative therapies for abdominal aortic aneurysms. <i>Stem Cells Translational Medicine</i> , 2013 , 2, 401-8	6.9	9
15	Magnetically Responsive Bone Marrow Mesenchymal Stem Cell-Derived Smooth Muscle Cells Maintain Their Benefits to Augmenting Elastic Matrix Neosynthesis. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 301-11	2.9	9
14	Cathepsin K-targeted sub-micron particles for regenerative repair of vascular elastic matrix. <i>Acta Biomaterialia</i> , 2017 , 52, 60-73	10.8	8
13	Stem cell derived extracellular vesicles for vascular elastic matrix regenerative repair. <i>Acta Biomaterialia</i> , 2020 , 113, 267-278	10.8	8
12	Nanoparticulate delivery of agents for induced elastogenesis in three-dimensional collagenous matrices. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2016 , 10, 1041-1056	4.4	8
11	Nanotherapeutics to Modulate the Compromised Micro-Environment for Lung Cancers and Chronic Obstructive Pulmonary Disease. <i>Frontiers in Pharmacology</i> , 2018 , 9, 759	5.6	7

10	Spatiotemporal mapping of matrix remodelling and evidence of in situ elastogenesis in experimental abdominal aortic aneurysms. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 231-245	4.4	7
9	Elastin homeostasis is altered with pelvic organ prolapse in cultures of vaginal cells from a lysyl oxidase-like 1 knockout mouse model. <i>Physiological Reports</i> , 2020 , 8, e14436	2.6	6
8	Fibrinolytic PLGA nanoparticles for slow clot lysis within abdominal aortic aneurysms attenuate proteolytic loss of vascular elastic matrix. <i>Materials Science and Engineering C</i> , 2016 , 59, 145-156	8.3	6
7	Maintaining Elastogenicity of Mesenchymal Stem Cell-Derived Smooth Muscle Cells in Two-Dimensional Culture. <i>Tissue Engineering - Part A</i> , 2018 , 24, 979-989	3.9	4
6	Assessing the targeting and fate of cathepsin k antibody-modified nanoparticles in a rat abdominal aortic aneurysm model. <i>Acta Biomaterialia</i> , 2020 , 112, 225-233	10.8	3
5	Pro-elastogenic effects of mesenchymal stem cell derived smooth muscle cells in a 3D collagenous milieu. <i>Acta Biomaterialia</i> , 2020 , 105, 180-190	10.8	3
4	Temporal changes in peritoneal cell phenotype and neoelastic matrix induction with hyaluronan oligomers and TGF- β after implantation of engineered conduits. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, 1420-1431	4.4	3
3	Quantitative Morphometry of Elastic Fibers in Pelvic Organ Prolapse. <i>Annals of Biomedical Engineering</i> , 2021 , 49, 1909-1922	4.7	3
2	Growth Factor Delivery Matrices for Cardiovascular Regeneration 2015 , 159-214		
1	Biomolecular Regulation of Elastic Matrix Regeneration and Repair 2016 , 117-164		