

Anthal I P M Smits

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4151002/publications.pdf>

Version: 2024-02-01

49
papers

1,673
citations

304368

22
h-index

301761

39
g-index

56
all docs

56
docs citations

56
times ranked

1663
citing authors

#	ARTICLE	IF	CITATIONS
1	Animal studies for the evaluation of in situ tissue-engineered vascular grafts â€” a systematic review, evidence map, and meta-analysis. <i>Npj Regenerative Medicine</i> , 2022, 7, 17.	2.5	10
2	Mechanisms of Calcification in Materials for Valvular and Vascular In Situ Tissue Engineering. <i>European Journal of Vascular and Endovascular Surgery</i> , 2022, 63, e44-e45.	0.8	1
3	Marker-Independent Monitoring of in vitro and in vivo Degradation of Supramolecular Polymers Applied in Cardiovascular in situ Tissue Engineering. <i>Frontiers in Cardiovascular Medicine</i> , 2022, 9, .	1.1	5
4	Donor Heterogeneity in the Human Macrophage Response to a Biomaterial Under Hyperglycemia <i>In Vitro</i>. <i>Tissue Engineering - Part C: Methods</i> , 2022, 28, 440-456.	1.1	4
5	Distinct Effects of Heparin and Interleukinâ€4 Functionalization on Macrophage Polarization and In Situ Arterial Tissue Regeneration Using Resorbable Supramolecular Vascular Grafts in Rats. <i>Advanced Healthcare Materials</i> , 2021, 10, e2101103.	3.9	11
6	Inflammatory and regenerative processes in bioresorbable synthetic pulmonary valves up to two years in sheepâ€”Spatiotemporal insights augmented by Raman microspectroscopy. <i>Acta Biomaterialia</i> , 2021, 135, 243-259.	4.1	18
7	Immuno-regenerative biomaterials for in situ cardiovascular tissue engineering â€” Do patient characteristics warrant precision engineering?. <i>Advanced Drug Delivery Reviews</i> , 2021, 178, 113960.	6.6	29
8	Probing Single-Cell Macrophage Polarization and Heterogeneity Using Thermo-Reversible Hydrogels in Droplet-Based Microfluidics. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021, 9, 715408.	2.0	12
9	Imparting Immunomodulatory Activity to Scaffolds via Biotinâ€”Avidin Interactions. <i>ACS Biomaterials Science and Engineering</i> , 2021, 7, 5611-5621.	2.6	5
10	Layer-specific cell differentiation in bi-layered vascular grafts under flow perfusion. <i>Biofabrication</i> , 2020, 12, 015009.	3.7	43
11	Hemodynamic loads distinctively impact the secretory profile of biomaterial-activated macrophages â€” implications for<i>in situ</i>vascular tissue engineering. <i>Biomaterials Science</i> , 2020, 8, 132-147.	2.6	45
12	Differential Leaflet Remodeling of Boneâ€Marrow Cell Pre-Seeded Versus Nonseeded Bioresorbable Transcatheter Pulmonary Valve Replacements. <i>JACC Basic To Translational Science</i> , 2020, 5, 15-31.	1.9	32
13	Optimization of Anti-kinking Designs for Vascular Grafts Based on Supramolecular Materials. <i>Frontiers in Materials</i> , 2020, 7, .	1.2	14
14	Inconsistency in Graft Outcome of Bilayered Bioresorbable Supramolecular Arterial Scaffolds in Rats. <i>Tissue Engineering - Part A</i> , 2020, 27, 894-904.	1.6	11
15	Vascular Tissue Engineering: Pathological Considerations, Mechanisms, and Translational Implications. , 2020, , 95-134.		2
16	Transcatheter-Delivered Expandable Bioresorbable Polymeric Graft With Stenting Capacity Induces Vascular Regeneration. <i>JACC Basic To Translational Science</i> , 2020, 5, 1095-1110.	1.9	8
17	Inâ€Situ Remodeling Overrides Bioinspired Scaffold Architecture of Supramolecular Elastomeric Tissue-Engineered Heart Valves. <i>JACC Basic To Translational Science</i> , 2020, 5, 1187-1206.	1.9	38
18	Human In Vitro Model Mimicking Materialâ€Driven Vascular Regeneration Reveals How Cyclic Stretch and Shear Stress Differentially Modulate Inflammation and Matrix Deposition. <i>Advanced Biology</i> , 2020, 4, e1900249.	3.0	23

#	ARTICLE	IF	CITATIONS
19	A Multi-Cue Bioreactor to Evaluate the Inflammatory and Regenerative Capacity of Biomaterials under Flow and Stretch. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	6
20	Elastin in Vascular Grafts. , 2020, , 379-410.		2
21	Tissue-engineered heart valves. , 2019, , 123-176.		3
22	The degradation and performance of electrospun supramolecular vascular scaffolds examined upon in vitro enzymatic exposure. <i>Acta Biomaterialia</i> , 2019, 92, 48-59.	4.1	25
23	Macrophage-Driven Biomaterial Degradation Depends on Scaffold Microarchitecture. <i>Frontiers in Bioengineering and Biotechnology</i> , 2019, 7, 87.	2.0	89
24	Cyclic Strain Affects Macrophage Cytokine Secretion and Extracellular Matrix Turnover in Electrospun Scaffolds. <i>Tissue Engineering - Part A</i> , 2019, 25, 1310-1325.	1.6	25
25	Elastin in Vascular Grafts. , 2019, , 1-32.		3
26	Tissue engineering meets immunoengineering: Prospective on personalized in situ tissue engineering strategies. <i>Current Opinion in Biomedical Engineering</i> , 2018, 6, 17-26.	1.8	41
27	Modulation of macrophage phenotype and protein secretion via heparin-IL-4 functionalized supramolecular elastomers. <i>Acta Biomaterialia</i> , 2018, 71, 247-260.	4.1	65
28	Sheep-Specific Immunohistochemical Panel for the Evaluation of Regenerative and Inflammatory Processes in Tissue-Engineered Heart Valves. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 105.	1.1	20
29	Can We Grow Valves Inside the Heart? Perspective on Material-based In Situ Heart Valve Tissue Engineering. <i>Frontiers in Cardiovascular Medicine</i> , 2018, 5, 54.	1.1	45
30	Host Response and Neo-Tissue Development during Resorption of a Fast Degrading Supramolecular Electrospun Arterial Scaffold. <i>Bioengineering</i> , 2018, 5, 61.	1.6	24
31	Decoupling the Effect of Shear Stress and Stretch on Tissue Growth and Remodeling in a Vascular Graft. <i>Tissue Engineering - Part C: Methods</i> , 2018, 24, 418-429.	1.1	48
32	In situ heart valve tissue engineering using a bioresorbable elastomeric implant “ From material design to 12 months follow-up in sheep. <i>Biomaterials</i> , 2017, 125, 101-117.	5.7	231
33	Biomaterial-driven in situ cardiovascular tissue engineering“a multi-disciplinary perspective. <i>Npj Regenerative Medicine</i> , 2017, 2, 18.	2.5	181
34	Ex vivo culture platform for assessment of cartilage repair treatment strategies. <i>ALTEX: Alternatives To Animal Experimentation</i> , 2017, 34, 267-277.	0.9	30
35	Early in-situ cellularization of a supramolecular vascular graft is modified by synthetic stromal cell-derived factor-1± derived peptides. <i>Biomaterials</i> , 2016, 76, 187-195.	5.7	95
36	<i>In Situ</i> Tissue Engineering: Seducing the Body to Regenerate. <i>Tissue Engineering - Part A</i> , 2016, 22, 1061-1062.	1.6	11

#	ARTICLE	IF	CITATIONS
37	Development of Non-Cell Adhesive Vascular Grafts Using Supramolecular Building Blocks. <i>Macromolecular Bioscience</i> , 2016, 16, 350-362.	2.1	47
38	<i>In Situ</i> Tissue Engineering of Functional Small-Diameter Blood Vessels by Host Circulating Cells Only. <i>Tissue Engineering - Part A</i> , 2015, 21, 2583-2594.	1.6	92
39	Differential Response of Endothelial and Endothelial Colony Forming Cells on Electrospun Scaffolds with Distinct Microfiber Diameters. <i>Biomacromolecules</i> , 2014, 15, 821-829.	2.6	49
40	Synergistic protein secretion by mesenchymal stromal cells seeded in 3D scaffolds and circulating leukocytes in physiological flow. <i>Biomaterials</i> , 2014, 35, 9100-9113.	5.7	36
41	Shear flow affects selective monocyte recruitment into MCP-1 loaded scaffolds. <i>Journal of Cellular and Molecular Medicine</i> , 2014, 18, 2176-2188.	1.6	35
42	Then and now: hypes and hopes of regenerative medicine. <i>Trends in Biotechnology</i> , 2013, 31, 121-123.	4.9	10
43	A Mesofluidics-Based Test Platform for Systematic Development of Scaffolds for <i>In Situ</i> Cardiovascular Tissue Engineering. <i>Tissue Engineering - Part C: Methods</i> , 2012, 18, 475-485.	1.1	20
44	Modulating the Inflammatory Response for <i>In Situ</i> Tissue Engineering – The Role of MCP-1. , 2012, , .		0
45	3D Engineered Micro-Tissue Models to Study Cardiovascular (Patho)biology and Regeneration. , 2012, , .		0
46	Tissue engineering of heart valves: advances and current challenges. <i>Expert Review of Medical Devices</i> , 2009, 6, 259-275.	1.4	126
47	Inflammatory and Regenerative Processes in Bioresorbable Synthetic Pulmonary Valves Up to 2 Years in Sheep: Spatiotemporal Insights Augmented by Raman Microspectroscopy. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0
48	Il-4 functionalized 2D and 3D structures based on supramolecular interactions for in-situ vascular regeneration. <i>Frontiers in Bioengineering and Biotechnology</i> , 0, 4, .	2.0	0
49	The Degradation and Performance of Electrospun Supramolecular Vascular Scaffolds Examined Upon <i>In Vitro</i> Enzymatic Exposure. <i>SSRN Electronic Journal</i> , 0, , .	0.4	0