

Hilfiker Andres

List of Publications by Year in descending order

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Version: 2024-02-01

52
papers

2,017
citations

331538

21
h-index

254106

43
g-index

56
all docs

56
docs citations

56
times ranked

2762
citing authors

#	ARTICLE	IF	CITATIONS
1	Role of NAD(P)H Oxidase in Angiotensin II-Induced JAK/STAT Signaling and Cytokine Induction. <i>Circulation Research</i> , 2000, 87, 1195-1201.	2.0	256
2	Clinical Application of Tissue Engineered Human Heart Valves Using Autologous Progenitor Cells. <i>Circulation</i> , 2006, 114, 1132-7.	1.6	252
3	Detergent Decellularization of Heart Valves for Tissue Engineering: Toxicological Effects of Residual Detergents on Human Endothelial Cells. <i>Artificial Organs</i> , 2010, 34, 206-210.	1.0	213
4	Preclinical Testing of Tissue-Engineered Heart Valves Re-Endothelialized Under Simulated Physiological Conditions. <i>Circulation</i> , 2006, 114, 1559-65.	1.6	115
5	Mesenchymal stem cells and progenitor cells in connective tissue engineering and regenerative medicine: is there a future for transplantation?. <i>Langenbeck's Archives of Surgery</i> , 2011, 396, 489-497.	0.8	109
6	Expression of CYR61, an Angiogenic Immediate Early Gene, in Arteriosclerosis and Its Regulation by Angiotensin II. <i>Circulation</i> , 2002, 106, 254-260.	1.6	103
7	Dosage Compensation in <i>Drosophila</i> a Model for the Coordinate Regulation of Transcription. <i>Genetics</i> , 2016, 204, 435-450.	1.2	74
8	Novel method for the generation of tissue-engineered vascular grafts based on a highly compacted fibrin matrix. <i>Acta Biomaterialia</i> , 2016, 29, 21-32.	4.1	71
9	Formation of three-dimensional tubular endothelial cell networks under defined serum-free cell culture conditions in human collagen hydrogels. <i>Scientific Reports</i> , 2019, 9, 5437.	1.6	62
10	Successful matrix guided tissue regeneration of decellularized pulmonary heart valve allografts in elderly sheep. <i>Biomaterials</i> , 2015, 52, 221-228.	5.7	50
11	In vitro maturation of large-scale cardiac patches based on a perfusable starter matrix by cyclic mechanical stimulation. <i>Acta Biomaterialia</i> , 2016, 30, 177-187.	4.1	50
12	Impaired immune response mediated by prostaglandin E2 promotes severe COVID-19 disease. <i>PLoS ONE</i> , 2021, 16, e0255335.	1.1	48
13	In vivo performance of freeze-dried decellularized pulmonary heart valve allo- and xenografts orthotopically implanted into juvenile sheep. <i>Acta Biomaterialia</i> , 2018, 68, 41-52.	4.1	46
14	Effects of combined cryopreservation and decellularization on the biomechanical, structural and biochemical properties of porcine pulmonary heart valves. <i>Acta Biomaterialia</i> , 2016, 43, 71-77.	4.1	44
15	Transplantation of Mucosa From Stomach to Esophagus to Prevent Stricture After Circumferential Endoscopic Submucosal Dissection of Early Squamous Cell. <i>Gastroenterology</i> , 2014, 146, 906-909.	0.6	42
16	Successful re-endothelialization of a perfusable biological vascularized matrix (BioVaM) for the generation of 3D artificial cardiac tissue. <i>Basic Research in Cardiology</i> , 2014, 109, 441.	2.5	37
17	Decellularized aortic allografts versus pulmonary autografts for aortic valve replacement in the growing sheep model: haemodynamic and morphological results at 20 months after implantation. <i>European Journal of Cardio-thoracic Surgery</i> , 2016, 49, 1228-1238.	0.6	37
18	Decellularization combined with enzymatic removal of N-linked glycans and residual DNA reduces inflammatory response and improves performance of porcine xenogeneic pulmonary heart valves in an ovine in vivo model. <i>Xenotransplantation</i> , 2020, 27, e12571.	1.6	37

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19	Improvement of biological age by physical activity. <i>International Journal of Cardiology</i> , 2014, 176, 1187-1189.	0.8	32
20	Animal models and animal-free innovations for cardiovascular research: current status and routes to be explored. Consensus document of the ESC Working Group on Myocardial Function and the ESC Working Group on Cellular Biology of the Heart. <i>Cardiovascular Research</i> , 2022, 118, 3016-3051.	1.8	30
21	Sucrose Diffusion in Decellularized Heart Valves for Freeze-Drying. <i>Tissue Engineering - Part C: Methods</i> , 2015, 21, 922-931.	1.1	25
22	Early Insight Into In Vivo Recellularization of Cell-Free Allogenic Heart Valves. <i>Annals of Thoracic Surgery</i> , 2019, 108, 581-589.	0.7	24
23	Protein stability in stored decellularized heart valve scaffolds and diffusion kinetics of protective molecules. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 430-438.	1.1	22
24	Toward acellular xenogeneic heart valve prostheses: Histological and biomechanical characterization of decellularized and enzymatically deglycosylated porcine pulmonary heart valve matrices. <i>Xenotransplantation</i> , 2020, 27, e12617.	1.6	20
25	Human adipose tissue-derived stromal cells in combination with exogenous stimuli facilitate three-dimensional network formation of human endothelial cells derived from various sources. <i>Vascular Pharmacology</i> , 2018, 106, 28-36.	1.0	17
26	Decellularized GGTA1-KO pig heart valves do not bind preformed human xenoantibodies. <i>Basic Research in Cardiology</i> , 2016, 111, 39.	2.5	15
27	Residual immune response towards decellularized homografts may be highly individual. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 59, 773-782.	0.6	15
28	Viability and proliferation of endothelial cells upon exposure to GaN nanoparticles. <i>Beilstein Journal of Nanotechnology</i> , 2016, 7, 1330-1337.	1.5	14
29	Effects of personalized endurance training on cellular age and vascular function in middle-aged sedentary women. <i>European Journal of Preventive Cardiology</i> , 2019, 26, 1903-1906.	0.8	14
30	Characterization of Tissue Engineered Endothelial Cell Networks in Composite Collagen-Agarose Hydrogels. <i>Gels</i> , 2020, 6, 27.	2.1	13
31	Immunological and functional features of decellularized xenogeneic heart valves after transplantation into GGTA1-KO pigs. <i>International Journal of Energy Production and Management</i> , 2021, 8, .	1.9	13
32	Use of sucrose to diminish pore formation in freeze-dried heart valves. <i>Scientific Reports</i> , 2018, 8, 12982.	1.6	10
33	Outgrowing endothelial and smooth muscle cells for tissue engineering approaches. <i>Journal of Tissue Engineering</i> , 2017, 8, 204173141769885.	2.3	9
34	Spectral fingerprinting of decellularized heart valve scaffolds. <i>Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy</i> , 2019, 214, 95-102.	2.0	9
35	Identification of miR-143 as a Major Contributor for Human Stenotic Aortic Valve Disease. <i>Journal of Cardiovascular Translational Research</i> , 2019, 12, 447-458.	1.1	8
36	Decellularized pig pulmonary heart valves – Depletion of nucleic acids measured by proviral PERV. <i>Xenotransplantation</i> , 2020, 27, e12565.	1.6	8

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37	<sup />Six-Year-Old Sheep as a Clinically Relevant Large Animal Model for Aortic Valve Replacement Using Tissue-Engineered Grafts Based on Decellularized Allogenic Matrix. <i>Tissue Engineering - Part C: Methods</i> , 2017, 23, 953-963.	1.1	7
38	Targeting Endothelial Cells with Multifunctional GaN/Fe Nanoparticles. <i>Nanoscale Research Letters</i> , 2017, 12, 486.	3.1	7
39	Dot blots of solubilized extracellular matrix allow quantification of human antibodies bound to epitopes present in decellularized porcine pulmonary heart valves. <i>Xenotransplantation</i> , 2021, 28, e12646.	1.6	6
40	Fourier transform infrared spectroscopy coupled with machine learning classification for identification of oxidative damage in freeze-dried heart valves. <i>Scientific Reports</i> , 2021, 11, 12299.	1.6	6
41	No evidence for Î±Gal epitope transfer from media containing FCS onto human endothelial cells in culture. <i>Xenotransplantation</i> , 2015, 22, 345-355.	1.6	5
42	Effects of six month personalized endurance training on work ability in middle-aged sedentary women: a secondary analysis of a randomized controlled trial. <i>Journal of Occupational Medicine and Toxicology</i> , 2020, 15, 8.	0.9	5
43	Generation of glycans depleted decellularized porcine pericardium, using digestive enzymatic supplements and enzymatic mixtures for food industry. <i>Xenotransplantation</i> , 2021, 28, e12705.	1.6	5
44	Reâ€ endothelialization of nonâ€ detergent decellularized porcine vessels. <i>Artificial Organs</i> , 2021, 45, E53-E64.	1.0	4
45	Protein secondary structure and solvent accessibility of proteins in decellularized heart valve scaffolds. <i>Biomedical Spectroscopy and Imaging</i> , 2012, 1, 79-87.	1.2	3
46	Decellularized mitral valve in a long-term sheep modelâ€. <i>European Journal of Cardio-thoracic Surgery</i> , 2018, 53, 1165-1172.	0.6	3
47	Dehydration improves biomechanical strength of bioartificial vascular graft material and allows its long-term storage. <i>Innovative Surgical Sciences</i> , 2018, 3, 215-224.	0.4	3
48	Freeze-Drying of Decellularized Heart Valves for Off-the-Shelf Availability. <i>Methods in Molecular Biology</i> , 2021, 2180, 731-739.	0.4	3
49	BioVaM in the Rat Model: A New Approach of Vascularized 3D Tissue for Esophageal Replacement. <i>European Journal of Pediatric Surgery</i> , 2015, 25, 181-188.	0.7	2
50	Investigation of inflammatory response of decellularized porcine aortic tissue in mice: can we rely on this experimental setting?. <i>European Journal of Cardio-thoracic Surgery</i> , 2015, 47, e90-e91.	0.6	1
51	An Analysis of Tissue-Engineered Pulmonary Valves Implanted in the Elderly Ovine Model. , 2012, , .		1
52	Heart valve transplantation: the urgent need for non-immunogenic porcine heart valve matrices. <i>Xenotransplantation</i> , 2013, 20, 56-56.	1.6	0