

# Ulrich A Stock

## List of Publications by Year in descending order

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49  
papers

2,599  
citations

201674

27  
h-index

206112

48  
g-index

52  
all docs

52  
docs citations

52  
times ranked

2981  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tissue Engineering: Current State and Prospects. Annual Review of Medicine, 2001, 52, 443-451.	12.2	420
2	Tissue-engineered valved conduits in the pulmonary circulation. Journal of Thoracic and Cardiovascular Surgery, 2000, 119, 732-740.	0.8	239
3	Two-photon microscopes and in vivo multiphoton tomographs " Powerful diagnostic tools for tissue engineering and drug delivery. Advanced Drug Delivery Reviews, 2006, 58, 878-896.	13.7	196
4	Impact of heart valve decellularization on 3-D ultrastructure, immunogenicity and thrombogenicity. Biomaterials, 2010, 31, 2549-2554.	11.4	189
5	Tissue engineering of aortic tissue: dire consequence of suboptimal elastic fiber synthesis in vivo. Cardiovascular Research, 2004, 63, 719-730.	3.8	101
6	Patch augmentation of the pulmonary artery with bioabsorbable polymers and autologous cell seeding. Journal of Thoracic and Cardiovascular Surgery, 2000, 120, 1158-1167.	0.8	98
7	Impact of Cryopreservation on Extracellular Matrix Structures of Heart Valve Leaflets. Annals of Thoracic Surgery, 2006, 81, 918-926.	1.3	98
8	Human immune responses to porcine xenogeneic matrices and their extracellular matrix constituents in vitro. Biomaterials, 2010, 31, 3793-3803.	11.4	86
9	Tissue engineering of heart valves using decellularized xenogeneic or polymeric starter matrices. Philosophical Transactions of the Royal Society B: Biological Sciences, 2007, 362, 1505-1512.	4.0	80
10	Prediction of safe duration of hypothermic circulatory arrest by near-infrared spectroscopy. Journal of Thoracic and Cardiovascular Surgery, 2001, 122, 339-350.	0.8	77
11	Combination of alpha-stat strategy and hemodilution exacerbates neurologic injury in a survival piglet model with deep hypothermic circulatory arrest. Annals of Thoracic Surgery, 2002, 73, 180-189.	1.3	71
12	Optimized Preservation of Extracellular Matrix in Cardiac Tissues: Implications for Long-Term Graft Durability. Annals of Thoracic Surgery, 2007, 83, 1641-1650.	1.3	71
13	Utility and Limitations of Near-Infrared Spectroscopy during Cardiopulmonary Bypass in a Piglet Model. Pediatric Research, 2001, 49, 770-776.	2.3	69
14	Raman spectroscopy for the non-contact and non-destructive monitoring of collagen damage within tissues. Journal of Biophotonics, 2012, 5, 47-56.	2.3	68
15	Engineering of fibrillar decorin matrices for a tissue-engineered trachea. Biomaterials, 2012, 33, 5259-5266.	11.4	66
16	Performance of decellularized xenogeneic tissue in heart valve replacement. Biomaterials, 2006, 27, 1-2.	11.4	59
17	Cardiovascular Physiology During Fetal Development and Implications for Tissue Engineering. Tissue Engineering, 2001, 7, 1-7.	4.6	56
18	Dynamics of extracellular matrix production and turnover in tissue engineered cardiovascular structures. Journal of Cellular Biochemistry, 2001, 81, 220-228.	2.6	54

#	ARTICLE	IF	CITATIONS
19	Imaging of cardiovascular structures using near-infrared femtosecond multiphoton laser scanning microscopy. <i>Journal of Biomedical Optics</i> , 2005, 10, 024017.	2.6	51
20	Cardiomyopathy is associated with structural remodelling of heart valve extracellular matrix. <i>European Heart Journal</i> , 2009, 30, 2254-2265.	2.2	48
21	Fibronectin Adsorption on Electrospun Synthetic Vascular Grafts Attracts Endothelial Progenitor Cells and Promotes Endothelialization in Dynamic In Vitro Culture. <i>Cells</i> , 2020, 9, 778.	4.1	39
22	The performance of ice-free cryopreserved heart valve allografts in an orthotopic pulmonary sheep model. <i>Biomaterials</i> , 2010, 31, 5306-5311.	11.4	37
23	Ice-free cryopreservation of heart valve allografts: better extracellular matrix preservation in vivo and preclinical results. <i>Cell and Tissue Banking</i> , 2012, 13, 663-671.	1.1	36
24	Phenotypical Plasticity of Vascular Smooth Muscle Cells—Effect of In Vitro and In Vivo Shear Stress for Tissue Engineering of Blood Vessels. <i>Tissue Engineering</i> , 2007, 13, 2505-2514.	4.6	33
25	Percutaneous pulmonary valve replacement: autologous tissue-engineered valved stents. <i>Cardiovascular Research</i> , 2010, 88, 453-461.	3.8	33
26	In vivo tissue engineering of heart valves: evolution of a novel concept. <i>Regenerative Medicine</i> , 2009, 4, 613-619.	1.7	32
27	Absence of Immune Responses with Xenogeneic Collagen and Elastin. <i>Tissue Engineering - Part A</i> , 2013, 19, 1592-1600.	3.1	28
28	Preclinical Evaluation of Ice-Free Cryopreserved Arteries: Structural Integrity and Hemocompatibility. <i>Cells Tissues Organs</i> , 2012, 196, 262-270.	2.3	16
29	Oligonucleotide and Parylene Surface Coating of Polystyrene and ePTFE for Improved Endothelial Cell Attachment and Hemocompatibility. <i>International Journal of Biomaterials</i> , 2012, 2012, 1-14.	2.4	16
30	The choice of cryopreservation method affects immune compatibility of human cardiovascular matrices. <i>Scientific Reports</i> , 2017, 7, 17027.	3.3	16
31	Marker-Independent In Situ Quantitative Assessment of Residual Cryoprotectants in Cardiac Tissues. <i>Analytical Chemistry</i> , 2019, 91, 2266-2272.	6.5	12
32	Valves in Development for Autogenous Tissue Valve Replacement. <i>Pediatric Cardiac Surgery Annual</i> , 1999, 2, 51-64.	1.2	11
33	Xeno-immunogenicity of ice-free cryopreserved porcine leaflets. <i>Journal of Surgical Research</i> , 2015, 193, 933-941.	1.6	11
34	Pros and Cons of Different Types of Mechanical Circulatory Support Device in Case of Postinfarction Ventricular Septal Defect. <i>ASAIO Journal</i> , 2021, 67, e110-e113.	1.6	11
35	Percutaneous SAPIEN S3 Transcatheter Valve Implantation for Post-Left Ventricular Assist Device Aortic Regurgitation. <i>Annals of Thoracic Surgery</i> , 2015, 100, e67-e69.	1.3	10
36	Methylene Blue Modulates Transendothelial Migration of Peripheral Blood Cells. <i>PLoS ONE</i> , 2013, 8, e82214.	2.5	10

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37	Development of a Simplified Ice-Free Cryopreservation Method for Heart Valves Employing VS83, an 83% Cryoprotectant Formulation. <i>Biopreservation and Biobanking</i> , 2012, 10, 479-484.	1.0	8
38	Impact of T-cell-mediated immune response on xenogeneic heart valve transplantation: short-term success and mid-term failure. <i>European Journal of Cardio-thoracic Surgery</i> , 2018, 53, 784-792.	1.4	8
39	Effects on human heart valve immunogenicity <i>in vitro</i> by high concentration cryoprotectant treatment. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018, 12, e1046-e1055.	2.7	8
40	Searching for the optimal heart valve. <i>Biotechnology Journal</i> , 2013, 8, 286-287.	3.5	5
41	Influence of hypothermia and subsequent rewarming upon leukocyte-endothelial interactions and expression of Junctional-Adhesion-Molecules A and B. <i>Scientific Reports</i> , 2016, 6, 21996.	3.3	5
42	Simplified Pulse Reactor for Real-Time Long-Term In Vitro Testing of Biological Heart Valves. <i>Annals of Biomedical Engineering</i> , 2010, 38, 1919-1927.	2.5	4
43	The results of cardiac surgery during the COVID-19 pandemic compared with previous years: a propensity weighted study of outcomes at six months. <i>Journal of the Royal Society of Medicine</i> , 2022, 115, 341-347.	2.0	4
44	Cardiac surgery during the COVID-19 pandemic: from <i>vita minima</i> to recovery. <i>British Journal of Surgery</i> , 2020, 107, e481-e483.	0.3	3
45	Methylene blue modulates adhesion molecule expression on microvascular endothelial cells. <i>Inflammation Research</i> , 2014, 63, 649-656.	4.0	1
46	Kinetics of circulating endothelial progenitor cells in patients undergoing carotid artery surgery. <i>Therapeutics and Clinical Risk Management</i> , 2016, Volume 12, 1841-1847.	2.0	1
47	The role of extracellular and intracellular proteolytic systems in aneurysms of the ascending aorta. <i>Histology and Histopathology</i> , 2016, 31, 523-34.	0.7	1
48	Gelatin and Decorin are Suitable Candidates for Application in Tissue-Engineered Matrices - an Immunological In Vitro Study. , 2012, , .		0
49	The Myth of Cryopreservation of Heart Valves. <i>FASEB Journal</i> , 2013, 27, 16.6.	0.5	0