Payam Akhyari

List of Publications by Citations

188 papers	2,877 citations	27 h-index	49 g-index
255 ext. papers	3,349 ext. citations	3.1 avg, IF	4.73 L-index

#	Paper	IF	Citations
188	Directed 3D cell alignment and elongation in microengineered hydrogels. *Biomaterials*, **2010**, 31, 6941-6951	15.6	410
187	Mechanical stretch regimen enhances the formation of bioengineered autologous cardiac muscle grafts. *Circulation*, **2002**, 106, I137-42	16.7	134
186	Secretory products from epicardial adipose tissue of patients with type 2 diabetes mellitus induce cardiomyocyte dysfunction. *Circulation*, **2012**, 126, 2324-34	16.7	120
185	In vitro engineering of heart muscle: artificial myocardial tissue. *Journal of Thoracic and Cardiovascular Surgery*, **2002**, 124, 63-9	1.5	120
184	The quest for an optimized protocol for whole-heart decellularization: a comparison of three popular and a novel decellularization technique and their diverse effects on crucial extracellular matrix qualities. *Tissue Engineering - Part C: Methods*, **2011**, 17, 915-26	2.9	111
183	Myocardial tissue engineering: the extracellular matrix. *European Journal of Cardio-thoracic Surgery*, **2008**, 34, 229-41	3	98
182	Acceleration of autologous in vivo recellularization of decellularized aortic conduits by fibronectin surface coating. *Biomaterials*, **2013**, 34, 6015-26	15.6	87
181	A novel miniaturized multimodal bioreactor for continuous in situ assessment of bioartificial cardiac tissue during stimulation and maturation. *Tissue Engineering - Part C: Methods*, **2011**, 17, 463-73	2.9	86
180	Pulsatile perfusion and cardiomyocyte viability in a solid three-dimensional matrix. *Biomaterials*, **2003**, 24, 5009-14	15.6	82
179	Sternal microcirculation after skeletonized versus pedicled harvesting of the internal thoracic artery: a randomized study. *Journal of Thoracic and Cardiovascular Surgery*, **2008**, 135, 32-7	1.5	80
178	Transplantation material bovine pericardium: biomechanical and immunogenic characteristics after decellularization vs. glutaraldehyde-fixing. *Xenotransplantation*, **2012**, 19, 286-97	2.8	65
177	Cardioprotective properties of omentin-1 in type 2 diabetes: evidence from clinical and in vitro studies. *PLoS ONE*, **2013**, 8, e59697	3.7	65
176	An innovative method for exosome quantification and size measurement. *Journal of Visualized Experiments*, **2015**, 50974	1.6	50
175	Activin A impairs insulin action in cardiomyocytes via up-regulation of miR-143. *Cardiovascular Research*, **2013**, 100, 201-10	9.9	49
174	A Suprainstitutional Network for Remote Extracorporeal Life Support: A Retrospective Cohort Study. *JACC: Heart Failure*, **2016**, 4, 698-708	7.9	46
173	Mechanical Stretch Regimen Enhances the Formation of Bioengineered Autologous Cardiac Muscle Grafts. *Circulation*, **2002**, 106,	16.7	45
172	A novel customizable modular bioreactor system for whole-heart cultivation under controlled 3D biomechanical stimulation. *Journal of Artificial Organs*, **2013**, 16, 294-304	1.8	43

171	A novel bioartificial myocardial tissue and its prospective use in cardiac surgery. *European Journal of Cardio-thoracic Surgery*, **2002**, 22, 238-43	3	39
170	Development of a growing rat model for the in vivo assessment of engineered aortic conduits. *Journal of Surgical Research*, **2012**, 176, 367-75	2.5	38
169	Pulsatile extracorporeal circulation during on-pump cardiac surgery enhances aortic wall shear stress. *Journal of Biomechanics*, **2012**, 45, 156-63	2.9	36
168	Secretory products from epicardial adipose tissue from patients with type 2 diabetes impair mitochondrial Ebxidation in cardiomyocytes via activation of the cardiac renin-angiotensin system and induction of miR-208a. *Basic Research in Cardiology*, **2017**, 112, 2	11.8	34
167	In vivo functional performance and structural maturation of decellularised allogenic aortic valves in the subcoronary position. *European Journal of Cardio-thoracic Surgery*, **2010**, 38, 539-46	3	33
166	Clinically established hemostatic scaffold (tissue fleece) as biomatrix in tissue- and organ-engineering research. *Tissue Engineering*, **2003**, 9, 517-23		32
165	Bioactive coating of decellularized vascular grafts with a temperature-sensitive VEGF-conjugated hydrogel accelerates autologous endothelialization in vivo. *Journal of Tissue Engineering and Regenerative Medicine*, **2018**, 12, e513-e522	4.4	31
164	Cordial connections: molecular ensembles and structures of adhering junctions connecting interstitial cells of cardiac valves in situ and in cell culture. *Cell and Tissue Research*, **2009**, 337, 63-77	4.2	31
163	Stem cells used for cardiovascular tissue engineering. *European Journal of Cardio-thoracic Surgery*, **2008**, 34, 242-7	3	29
162	A cardiopulmonary bypass with deep hypothermic circulatory arrest rat model for the investigation of the systemic inflammation response and induced organ damage. *Journal of Inflammation*, **2014**, 11, 26	6.7	27
161	The degeneration of biological cardiovascular prostheses under pro-calcific metabolic conditions in a small animal model. *Biomaterials*, **2014**, 35, 7416-28	15.6	26
160	Customized Interface Biofunctionalization of Decellularized Extracellular Matrix: Toward Enhanced Endothelialization. *Tissue Engineering - Part C: Methods*, **2016**, 22, 496-508	2.9	26
159	Implementation of the aortic no-touch technique to reduce stroke after off-pump coronary surgery. *Journal of Thoracic and Cardiovascular Surgery*, **2018**, 156, 544-554.e4	1.5	25
158	Decellularized whole heart for bioartificial heart. *Methods in Molecular Biology*, **2013**, 1036, 163-78	1.4	25
157	Four-year experience of providing mobile extracorporeal life support to out-of-center patients within a suprainstitutional network-Outcome of 160 consecutively treated patients. *Resuscitation*, **2017**, 121, 151-157	4	23
156	Cardiac surgery in nonagenarians: not only feasible, but also reasonable?. *Interactive Cardiovascular and Thoracic Surgery*, **2013**, 17, 340-3; discussion 343	1.8	22
155	The number of wires for sternal closure has a significant influence on sternal complications in high-risk patients. *Interactive Cardiovascular and Thoracic Surgery*, **2012**, 15, 665-70	1.8	22
154	Transcatheter treatment of tricuspid regurgitation by caval valve implantation--experimental evaluation of decellularized tissue valves in central venous position. *Catheterization and Cardiovascular Interventions*, **2015**, 85, 150-60	2.7	21

153	Opposite effects of transforming growth factor-β1 and vascular endothelial growth factor on the degeneration of aortic valvular interstitial cell are modified by the extracellular matrix protein fibronectin: implications for heart valve engineering. *Tissue Engineering - Part A*, **2010**, 16, 3737-46	3.9	21
152	Vacuum-assisted wound closure is superior to primary rewiring in patients with deep sternal wound infection. *Thoracic and Cardiovascular Surgeon*, **2011**, 59, 25-9	1.6	21
151	Bioartificial grafts for transmural myocardial restoration: a new cardiovascular tissue culture concept. *European Journal of Cardio-thoracic Surgery*, **2003**, 24, 906-11	3	21
150	Thrombin receptor protease-activated receptor 4 is a key regulator of exaggerated intimal thickening in diabetes mellitus. *Circulation*, **2014**, 130, 1700-11	16.7	20
149	Traveling after heart transplantation. *Clinical Transplantation*, **2002**, 16, 280-4	3.8	18
148	Heparin-induced thrombocytopenia type II after cardiac surgery: predictors and outcome. *Thoracic and Cardiovascular Surgeon*, **2010**, 58, 463-7	1.6	17
147	Selenium Pretreatment for Mitigation of Ischemia/Reperfusion Injury in Cardiovascular Surgery: Influence on Acute Organ Damage and Inflammatory Response. *Inflammation*, **2016**, 39, 1363-76	5.1	17
146	Improvement of the in vivo cellular repopulation of decellularized cardiovascular tissues by a detergent-free, non-proteolytic, actin-disassembling regimen. *Journal of Tissue Engineering and Regenerative Medicine*, **2017**, 11, 3530-3543	4.4	14
145	The extracellular isoform of superoxide dismutase has a significant impact on cardiovascular ischaemia and reperfusion injury during cardiopulmonary bypass. *European Journal of Cardio-thoracic Surgery*, **2016**, 50, 1035-1044	3	14
144	Targeting of cell-free DNA by DNase I diminishes endothelial dysfunction and inflammation in a rat model of cardiopulmonary bypass. *Scientific Reports*, **2019**, 9, 19249	4.9	14
143	Degenerative aortic valve disease and diabetes: Implications for a link between proteoglycans and diabetic disorders in the aortic valve. *Diabetes and Vascular Disease Research*, **2019**, 16, 254-269	3.3	14
142	A novel native derived coronary artery tissue-flap model. *Tissue Engineering - Part C: Methods*, **2013**, 19, 970-80	2.9	13
141	Appropriate timing of coronary artery bypass grafting after acute myocardial infarction. *Thoracic and Cardiovascular Surgeon*, **2012**, 60, 446-51	1.6	13
140	Impact of severe postoperative complications after cardiac surgery on mortality in patients aged over 80 years. *Annals of Thoracic and Cardiovascular Surgery*, **2014**, 20, 383-9	1.8	13
139	Complete recovery of fulminant peripartum cardiomyopathy on mechanical circulatory support combined with high-dose bromocriptine therapy. *ESC Heart Failure*, **2017**, 4, 641-644	3.7	12
138	The adhering junctions of valvular interstitial cells: molecular composition in fetal and adult hearts and the comings and goings of plakophilin-2 in situ, in cell culture and upon re-association with scaffolds. *Cell and Tissue Research*, **2012**, 348, 295-307	4.2	12
137	Isolated Tricuspid Valve Surgery: A Single Institutional Experience with the Technique of Minimally Invasive Surgery via Right Minithoracotomy. *Thoracic and Cardiovascular Surgeon*, **2017**, 65, 606-611	1.6	11
136	Assessment of decellularization of heart bioimplants using a Raman spectroscopy method. *Journal of Biomedical Optics*, **2017**, 22, 91511	3.5	11

135	Extracellular matrix metalloproteinase inducer (CD147) and membrane type 1-matrix metalloproteinase are expressed on tissue macrophages in calcific aortic stenosis and induce transmigration in an artificial valve model. *Journal of Thoracic and Cardiovascular Surgery*, **2011**, 142, 191-8	1.5	11
134	The impact of left ventricular stretching in model cultivations with neonatal cardiomyocytes in a whole-heart bioreactor. *Biotechnology and Bioengineering*, **2017**, 114, 1107-1117	4.9	10
133	Rheology of perfusates and fluid dynamical effects during whole organ decellularization: a perspective to individualize decellularization protocols for single organs. *Biofabrication*, **2015**, 7, 035008	10.5	10
132	Focal induction of ROS-release to trigger local vascular degeneration. *PLoS ONE*, **2017**, 12, e0179342	3.7	10
131	Impact of hyperinsulinemia and hyperglycemia on valvular interstitial cells - A link between aortic heart valve degeneration and type 2 diabetes. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2019**, 1865, 2526-2537	6.9	9
130	Modulation of Immunologic Response by Preventive Everolimus Application in a Rat CPB Model. *Inflammation*, **2016**, 39, 1771-82	5.1	9
129	Aortic conduit valve model with controlled moderate aortic regurgitation in rats: a technical modification to improve short- and long-term outcome and to increase the functional results. *Circulation Journal*, **2013**, 77, 2295-302	2.9	9
128	Aortic dissection type A after supra-aortic debranching and implantation of an endovascular stent-graft for type B dissection: A word of caution. *Journal of Thoracic and Cardiovascular Surgery*, **2009**, 137, 1290-2	1.5	9
127	Early results from a prospective, single-arm European trial on decellularized allografts for aortic valve replacement: the ARISE study and ARISE Registry data. *European Journal of Cardio-thoracic Surgery*, **2020**, 58, 1045-1053	3	8
126	Parvovirus B19-induced angiogenesis in fulminant myocarditis. *European Heart Journal*, **2020**, 41, 1309	9.5	8
125	Delayed sternal closure (DSC) after cardiac surgery: outcome and prognostic markers. *Journal of Cardiac Surgery*, **2011**, 26, 22-7	1.3	8
124	Open chest management after cardiac operations: outcome and timing of delayed sternal closure. *European Journal of Cardio-thoracic Surgery*, **2011**, 40, 1146-50	3	8
123	Carboxyfluorescein diacetate succinimidyl ester facilitates cell tracing and colocalization studies in bioartificial organ engineering. *International Journal of Artificial Organs*, **2003**, 26, 235-40	1.9	8
122	Challenges in developing a reseeded, tissue-engineered aortic valve prosthesis. *European Journal of Cardio-thoracic Surgery*, **2016**, 50, 446-55	3	8
121	Native aortic valve derived extracellular matrix hydrogel for three dimensional culture analyses with improved biomimetic properties. *Biomedical Materials (Bristol)*, **2019**, 14, 035014	3.5	8
120	Valve-Sparing Aortic Root Replacement as First-Choice Strategy in Acute Type a Aortic Dissection. *Frontiers in Surgery*, **2019**, 6, 46	2.3	7
119	Rapid Fluorescence-based Characterization of Single Extracellular Vesicles in Human Blood with Nanoparticle-tracking Analysis. *Journal of Visualized Experiments*, **2019**,	1.6	7
118	Dispersive aortic cannulas reduce aortic wall shear stress affecting atherosclerotic plaque embolization. *Artificial Organs*, **2015**, 39, 203-11	2.6	7

117	Simvastatin does not diminish the in vivo degeneration of decellularized aortic conduits. *Journal of Cardiovascular Pharmacology*, **2014**, 64, 332-42	3.1	7
116	Who needs QbridgeQ to transplantation in the presence of the Eurotransplant high-urgency heart transplantation program?. *European Journal of Cardio-thoracic Surgery*, **2008**, 34, 1129-33; discussion 1134-5	3	7
115	Transforming growth factor-1 promotes fibrosis but attenuates calcification of valvular tissue applied as a three-dimensional calcific aortic valve disease model. *American Journal of Physiology - Heart and Circulatory Physiology*, **2020**, 319, H1123-H1141	5.2	7
114	Extracorporeal Membrane Oxygenation after Heart Transplantation: Impact of Type of Cannulation. *Thoracic and Cardiovascular Surgeon*, **2021**, 69, 263-270	1.6	7
113	A Rat Model for the In Vivo Assessment of Biological and Tissue-Engineered Valvular and Vascular Grafts. *Tissue Engineering - Part C: Methods*, **2017**, 23, 982-994	2.9	6
112	Heart transplantation bridged by mechanical circulatory support in a HIV-positive patient. *Journal of Cardiac Surgery*, **2016**, 31, 559-61	1.3	6
111	Enzymes of the purinergic signaling system exhibit diverse effects on the degeneration of valvular interstitial cells in a 3-D microenvironment. *FASEB Journal*, **2018**, 32, 4356-4369	0.9	6
110	Prognostic value of the new high sensitive cardiac troponin T assay (hs-cTnT) after coronary artery bypass grafting. *Acta Cardiologica*, **2017**, 72, 276-283	0.9	6
109	Is simultaneous splenectomy an additive risk factor in surgical treatment for active endocarditis?. *Langenbeckfs Archives of Surgery*, **2012**, 397, 1261-6	3.4	6
108	Aortic root and ascending aortic replacement. *International Heart Journal*, **2009**, 50, 47-57	1.8	6
107	Surgical results for prosthetic versus native valve endocarditis: A multicenter analysis. *Journal of Thoracic and Cardiovascular Surgery*, **2021**, 161, 609-619.e10	1.5	6
106	Cytokine Hemoadsorption During Cardiac Surgery versus Standard Surgical Care for Infective Endocarditis (REMOVE): Results from a Multicenter, Randomized, Controlled Trial.. *Circulation*, **2022**,	16.7	6
105	Impact of mitral valve repair in patients with mitral regurgitation undergoing coronary artery bypass grafting. *Acta Cardiologica*, **2010**, 65, 441-7	0.9	6
104	Influence of Laminin Coating on the Autologous In Vivo Recellularization of Decellularized Vascular Protheses. *Materials*, **2019**, 12,	3.5	5
103	Genetic profiling and surface proteome analysis of human atrial stromal cells and rat ventricular epicardium-derived cells reveals novel insights into their cardiogenic potential. *Stem Cell Research*, **2017**, 25, 183-190	1.6	5
102	Additional right-sided upper "Half-Mini-Thoracotomy" for aortocoronary bypass grafting during minimally invasive multivessel revascularization. *Journal of Cardiothoracic Surgery*, **2015**, 10, 130	1.6	5
101	AdipoRon Attenuates Inflammation and Impairment of Cardiac Function Associated With Cardiopulmonary Bypass-Induced Systemic Inflammatory Response Syndrome. *Journal of the American Heart Association*, **2021**, 10, e018097	6	5
100	The Course of Circulating Small Extracellular Vesicles in Patients Undergoing Surgical Aortic Valve Replacement. *BioMed Research International*, **2020**, 2020, 6381396	3	4

99	Iron deficiency does not impair the outcome after elective coronary artery bypass and aortic valve procedures. *Journal of Cardiac Surgery*, **2021**, 36, 542-550	1.3	4
98	Heart transplantation in patients with ventricular assist devices: Impacts of the implantation technique and support duration. *Journal of Cardiac Surgery*, **2020**, 35, 352-359	1.3	4
97	Outcome analysis for prediction of early and long-term survival in patients receiving intra-aortic balloon pumping after cardiac surgery. *General Thoracic and Cardiovascular Surgery*, **2016**, 64, 584-91	1.6	4
96	Additional unloading of the left ventricle using the Impella LP 2.5 during extracorporeal life support in cases of pulmonary congestion. *Journal of Surgical Case Reports*, **2018**, 2018, rjy302	0.6	4
95	Simple technique of repair for Barlow syndrome with posterior resection and chordal transfer via minimally invasive approach: primary experience in a consecutive series of 22 patients. *General Thoracic and Cardiovascular Surgery*, **2017**, 65, 374-380	1.6	3
94	The age-adjusted Charlson comorbidity index in minimally invasive mitral valve surgery. *European Journal of Cardio-thoracic Surgery*, **2019**, 56, 1124-1130	3	3
93	Late reoperation after proximal repair of supravalvular stenosis for diffuse form of Williams-Beuren syndrome. *JTCVS Techniques*, **2020**, 3, 79-81	0.2	3
92	Bilirubin-A Possible Prognostic Mortality Marker for Patients with ECLS. *Journal of Clinical Medicine*, **2020**, 9,	5.1	3
91	Health-related quality of life after heart surgery - Identification of high-risk patients: A cohort study. *International Journal of Surgery*, **2020**, 76, 171-177	7.5	3
90	Characterization of the Epicardial Adipose Tissue in Decellularized Human-Scaled Whole Hearts: Implications for the Whole-Heart Tissue Engineering. *Tissue Engineering - Part A*, **2018**, 24, 682-693	3.9	3
89	Single-centre experience of mitral valve surgery via right lateral mini-thoracotomy in octogenarians. *Interactive Cardiovascular and Thoracic Surgery*, **2016**, 22, 287-90	1.8	3
88	Whole-Heart Construct Cultivation Under 3D Mechanical Stimulation of the Left Ventricle. *Methods in Molecular Biology*, **2016**, 1502, 181-94	1.4	3
87	A novel culture device for the evaluation of three-dimensional extracellular matrix materials. *Journal of Tissue Engineering and Regenerative Medicine*, **2014**, 8, 673-81	4.4	3
86	Determinants of bioartificial myocardial graft survival and engraftment in vivo. *Journal of Heart and Lung Transplantation*, **2008**, 27, 1242-50	5.8	3
85	Controlled autologous recellularization and inhibited degeneration of decellularized vascular implants by side-specific coating with stromal cell-derived factor 1 and fibronectin. *Biomedical Materials (Bristol)*, **2020**, 15, 035013	3.5	3
84	VALIDATION OF LOSS-COEFFICIENT-BASED OUTLET BOUNDARY CONDITIONS FOR SIMULATING AORTIC FLOW. *Journal of Mechanics in Medicine and Biology*, **2016**, 16, 1650011	0.7	3
83	Complications of left ventricular assist devices causing high urgency status on waiting list: impact on outcome after heart transplantation. *ESC Heart Failure*, **2021**, 8, 1253-1262	3.7	3
82	Electrophysiological Stimulation of Whole Heart Constructs in an 8-Pole Electrical Field. *Artificial Organs*, **2018**, 42, E391-E405	2.6	3

81	The Impact of Intraoperative Patient Blood Management on Quality Development in Cardiac Surgery. *Journal of Cardiothoracic and Vascular Anesthesia*, **2020**, 34, 2655-2663	2.1	2
80	Mechanistics of biomass discharge during whole-heart decellularization. *Biomedical Materials (Bristol)*, **2018**, 13, 035014	3.5	2
79	Soluble CD14 inhibits contractile function and insulin action in primary adult rat cardiomyocytes. *Biochimica Et Biophysica Acta - Molecular Basis of Disease*, **2017**, 1863, 365-374	6.9	2
78	High mortality in late octogenarians undergoing isolated aortic valve replacement for aortic valve stenosis: EuroSCORE underestimates mortality in this cohort. *Thoracic and Cardiovascular Surgeon*, **2012**, 60, 343-50	1.6	2
77	FTO Is Associated with Aortic Valve Stenosis in a Gender Specific Manner of Heterozygote Advantage: A Population-Based Case-Control Study. *PLoS ONE*, **2015**, 10, e0139419	3.7	2
76	Life impact of VA-ECMO due to primary graft dysfunction in patients after orthotopic heart transplantation. *ESC Heart Failure*, **2021**,	3.7	2
75	Use of Organs for Heart Transplantation after Rescue Allocation: Comparison of Outcome with Regular Allocated High Urgent Recipients. *Thoracic and Cardiovascular Surgeon*, **2021**, 69, 497-503	1.6	2
74	Degeneration of Aortic Valves in a Bioreactor System with Pulsatile Flow. *Biomedicines*, **2021**, 9,	4.8	2
73	Exposure to Type 2 Diabetes Provokes Mitochondrial Impairment in Apparently Healthy Human Hearts. *Diabetes Care*, **2021**, 44, e82-e84	14.6	2
72	Fibrinogen-Albumin-Ratio is an independent predictor of thromboembolic complications in patients undergoing VA-ECMO. *Scientific Reports*, **2021**, 11, 16648	4.9	2
71	Outcome of patients with non-ischaemic cardiogenic shock supported by percutaneous left ventricular assist device. *ESC Heart Failure*, **2021**, 8, 3594-3602	3.7	2
70	Initial experience covering 50 consecutive cases of large Impella implantation at a single heart centre. *ESC Heart Failure*, **2021**,	3.7	2
69	Cytomegalovirus mismatch after heart transplantation: Impact of antiviral prophylaxis and intravenous hyperimmune globulin. *Immunity, Inflammation and Disease*, **2021**, 9, 1554-1562	2.4	2
68	Comment on "Inverted orientation improves decellularization of whole porcine hearts" by Lee et al. *Acta Biomaterialia*, **2017**, 53, 643-644	10.8	1
67	Antibody-mediated rejection after cardiac transplant: Treatment with immunoadsorption, intravenous immunoglobulin, and anti-thymocyte globulin. *International Journal of Artificial Organs*, **2019**, 42, 370-373	1.9	1
66	Transfer of a minimally invasive mitral valve repair program from a high-volume center to a very low volume center: how many cases are necessary to maintain acceptable results?. *General Thoracic and Cardiovascular Surgery*, **2019**, 67, 577-584	1.6	1
65	Successful treatment of fulminant pulmonary embolism with extracorporeal life support and simultaneous systemic thrombolytic therapy after 1 h of cardiopulmonary resuscitation. *General Thoracic and Cardiovascular Surgery*, **2015**, 63, 664-6	1.6	1
64	Osteopontin as novel biomarker for reversibility of pressure overload induced left ventricular hypertrophy. *Biomarkers in Medicine*, **2020**, 14, 513-523	2.3	1

63	Previous Sternotomy as a Risk Factor in Minimally Invasive Mitral Valve Surgery. *Frontiers in Surgery*, **2018**, 5, 5	2.3	1
62	Blood Cyst of the Anterior Leaflet of the Mitral Valve in an Asymptomatic Adult: Is Surgery an Objective?. *Heart Surgery Forum*, **2015**, 18, E196-7	0.7	1
61	Echocardiographic detection of cardiac ectopy: a possible alternative to electrophysiological mapping?. *Heart Surgery Forum*, **2010**, 13, E324-7	0.7	1
60	Influence of prosthesis type on long-term survival after re-replacement of aortic valve prosthesis. *Heart Surgery Forum*, **2013**, 16, E298-302	0.7	1
59	Readmission to the intensive care unit in times of minimally invasive cardiac surgery: does size matter?. *Heart Surgery Forum*, **2014**, 17, E296-301	0.7	1
58	Neutrophil-lymphoycyte-ratio, platelet-lymphocyte-ratio and procalcitonin for early assessment of prognosis in patients undergoing VA-ECMO.. *Scientific Reports*, **2022**, 12, 542	4.9	1
57	Adequate immune response after SARS-CoV-2 infection and single dose vaccination despite rapid heart transplantation. *ESC Heart Failure*, **2021**, 8, 5568	3.7	1
56	Altered mRNA Expression of Interleukin-1 Receptors in Myocardial Tissue of Patients with Left Ventricular Assist Device Support. *Journal of Clinical Medicine*, **2021**, 10,	5.1	1
55	Computational investigation of hemodynamics in hardshell venous reservoirs: A comparative study. *Artificial Organs*, **2020**, 44, 411-418	2.6	1
54	Successful Heart Transplantation after Cardiopulmonary Resuscitation of Donors. *Thoracic and Cardiovascular Surgeon*, **2021**, 69, 504-510	1.6	1
53	Impact of standardized computed tomographic angiography for minimally invasive mitral and tricuspid valve surgery. *Journal of Cardiothoracic Surgery*, **2021**, 16, 34	1.6	1
52	Reproducible In Vitro Tissue Culture Model to Study Basic Mechanisms of Calcific Aortic Valve Disease: Comparative Analysis to Valvular Interstitials Cells. *Biomedicines*, **2021**, 9,	4.8	1
51	Impact of Reported Donor Ejection Fraction on Outcome after Heart Transplantation. *Thoracic and Cardiovascular Surgeon*, **2021**, 69, 490-496	1.6	1
50	Combined heart transplantation and replacement of atheromatous proximal arch. *Clinical Case Reports (discontinued)*, **2021**, 9, e04073	0.7	1
49	Levosimendan for Treatment of Primary Graft Dysfunction After Heart Transplantation: Optimal Timing of Application. *Experimental and Clinical Transplantation*, **2021**, 19, 473-480	0.8	1
48	Treatment of donor-specific antibody-mediated rejection after heart transplantation by IgM-enriched human immunoglobulin. *ESC Heart Failure*, **2021**, 8, 3413-3417	3.7	1
47	Coronary artery bypass grafting under sole Impella 5.0 support for patients with severely depressed left ventricular function. *Journal of Artificial Organs*, **2021**, 1	1.8	1
46	Evaluation of Strategies in the Management of Infective Aortic Valve Endocarditis at German Cardiac Surgical Departments. *Thoracic and Cardiovascular Surgeon*, **2019**, 67, 624-630	1.6	1

45	Human myocardial mitochondrial oxidative capacity is impaired in mild acute heart transplant rejection. *ESC Heart Failure*, **2021**,	3.7	1
44	The quality of afterlife: surviving extracorporeal life support after therapy-refractory circulatory failure-a comprehensive follow-up analysis. *ESC Heart Failure*, **2021**,	3.7	1
43	Degenerative changes of the aortic valve during left ventricular assist device support.. *ESC Heart Failure*, **2021**,	3.7	1
42	Successful transplantation of a heart donated 5 months after brain death of a pregnant young woman. *Journal of Heart and Lung Transplantation*, **2019**, 38, 1121	5.8	0
41	Chirurgischer Aortenklappenersatz. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2013**, 27, 158-165	0.1	0
40	Successful Heart Transplant in a Childhood Cancer Survivor With Chemoradiotherapy-Induced Cardiomyopathy. *Experimental and Clinical Transplantation*, **2020**, 18, 533-535	0.8	0
39	Thromboembolic Events in Patients With Left Ventricular Assist Devices Are Related to Microparticle-Induced Coagulation. *ASAIO Journal*, **2021**, 67, 59-66	3.6	0
38	Effects of Donor Age and Ischemia Time on Outcome After Heart Transplant: A 10-Year Single-Center Experience. *Experimental and Clinical Transplantation*, **2021**, 19, 351-358	0.8	0
37	Postcardiotomy Veno-Arterial Extracorporeal Membrane Oxygenation: Does the Cannulation Technique Influence the Outcome?. *Frontiers in Cardiovascular Medicine*, **2021**, 8, 658412	5.4	0
36	Whole-Heart Tissue Engineering: Use of Three-Dimensional Matrix Scaffolds **2015**, 215-237		
35	Prvention von Ischmie-/Reperfusionsschden. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2020**, 34, 374-380	0.1	
34	Video-assisted minimally invasive resection of papillary fibroelastoma. *Asian Cardiovascular and Thoracic Annals*, **2020**, 28, 179-181	0.6	
33	Succesful treatment of a severe case of rhabdomyolysis following heart transplantation by hemoadsorption. *Journal of Cardiac Surgery*, **2020**, 35, 940-941	1.3	
32	Reaktive Sauerstoffspezies und Gefdegeneration. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2018**, 32, 242-247	0.1	
31	Kardiovaskules Tissue-Engineering. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2016**, 30, 57-64	0.1	
30	A magnetic resonance imaging-compatible small animal model under extracorporeal circulation. *Interactive Cardiovascular and Thoracic Surgery*, **2019**, 29, 612-614	1.8	
29	Dezellularisierte Aorten-Conduits und ihre Biokompatibilit. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2014**, 28, 456-463	0.1	
28	Die Arbeitsgemeinschaft Aortenklappenchirurgie stellt sich vor. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2012**, 26, 78-79	0.1	

27	Optimierung der Biofunktionalität und Struktur dezellularisierter kardiovaskulärer Implantate. *Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie*, **2017**, 31, 206-213	0.1
26	CPR, ECLS, BVAD and successful heart transplantation within 2 months: a single-centre case series in two young, high-urgency listed patients. *International Journal of Artificial Organs*, **2017**, 40, 647-650	1.9
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