

Payam Akhyari

List of Publications by Year in Descending Order

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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.

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	Neutrophil-lymphocyte-ratio, platelet-lymphocyte-ratio and procalcitonin for early assessment of prognosis in patients undergoing VA-ECMO.. <i>Scientific Reports</i> , 2022 , 12, 542	4.9	1
187	Cytokine Hemoadsorption During Cardiac Surgery versus Standard Surgical Care for Infective Endocarditis (REMOVE): Results from a Multicenter, Randomized, Controlled Trial.. <i>Circulation</i> , 2022 ,	16.7	6
186	Hypothermic circulatory arrest does not induce coagulopathy in vitro.. <i>Journal of Artificial Organs</i> , 2022 , 1	1.8	
185	Recombinant Activated Factor VII in Aortic Surgery for Patients Under Hypothermic Circulatory Arrest.. <i>Therapeutics and Clinical Risk Management</i> , 2022 , 18, 337-348	2.9	
184	Iron deficiency does not impair the outcome after elective coronary artery bypass and aortic valve procedures. <i>Journal of Cardiac Surgery</i> , 2021 , 36, 542-550	1.3	4
183	Life impact of VA-ECMO due to primary graft dysfunction in patients after orthotopic heart transplantation. <i>ESC Heart Failure</i> , 2021 ,	3.7	2
182	Transplantation after Mustard operation for transposition of the great arteries. <i>Clinical Case Reports (discontinued)</i> , 2021 , 9, e04930	0.7	
181	Adequate immune response after SARS-CoV-2 infection and single dose vaccination despite rapid heart transplantation. <i>ESC Heart Failure</i> , 2021 , 8, 5568	3.7	1
180	Altered mRNA Expression of Interleukin-1 Receptors in Myocardial Tissue of Patients with Left Ventricular Assist Device Support. <i>Journal of Clinical Medicine</i> , 2021 , 10,	5.1	1
179	Thromboembolic Events in Patients With Left Ventricular Assist Devices Are Related to Microparticle-Induced Coagulation. <i>ASAIO Journal</i> , 2021 , 67, 59-66	3.6	0
178	The analysis of left ventricular ejection fraction after minimally invasive surgery for primary mitral valve regurgitation. <i>Journal of Cardiac Surgery</i> , 2021 , 36, 661-669	1.3	
177	Successful Heart Transplantation after Cardiopulmonary Resuscitation of Donors. <i>Thoracic and Cardiovascular Surgeon</i> , 2021 , 69, 504-510	1.6	1
176	Use of Organs for Heart Transplantation after Rescue Allocation: Comparison of Outcome with Regular Allocated High Urgent Recipients. <i>Thoracic and Cardiovascular Surgeon</i> , 2021 , 69, 497-503	1.6	2
175	Response to letter to the editor: "Association between iron deficiency and clinical outcomes following cardiac surgery". <i>Journal of Cardiac Surgery</i> , 2021 , 36, 2183	1.3	
174	AdipoRon Attenuates Inflammation and Impairment of Cardiac Function Associated With Cardiopulmonary Bypass-Induced Systemic Inflammatory Response Syndrome. <i>Journal of the American Heart Association</i> , 2021 , 10, e018097	6	5
173	Impact of standardized computed tomographic angiography for minimally invasive mitral and tricuspid valve surgery. <i>Journal of Cardiothoracic Surgery</i> , 2021 , 16, 34	1.6	1
172	Reproducible In Vitro Tissue Culture Model to Study Basic Mechanisms of Calcific Aortic Valve Disease: Comparative Analysis to Valvular Interstitials Cells. <i>Biomedicines</i> , 2021 , 9,	4.8	1

171	Degeneration of Aortic Valves in a Bioreactor System with Pulsatile Flow. <i>Biomedicines</i> , 2021 , 9,	4.8	2
170	Effects of Donor Age and Ischemia Time on Outcome After Heart Transplant: A 10-Year Single-Center Experience. <i>Experimental and Clinical Transplantation</i> , 2021 , 19, 351-358	0.8	0
169	Impact of Reported Donor Ejection Fraction on Outcome after Heart Transplantation. <i>Thoracic and Cardiovascular Surgeon</i> , 2021 , 69, 490-496	1.6	1
168	Combined heart transplantation and replacement of atheromatous proximal arch. <i>Clinical Case Reports (discontinued)</i> , 2021 , 9, e04073	0.7	1
167	Levosimendan for Treatment of Primary Graft Dysfunction After Heart Transplantation: Optimal Timing of Application. <i>Experimental and Clinical Transplantation</i> , 2021 , 19, 473-480	0.8	1
166	Exposure to Type 2 Diabetes Provokes Mitochondrial Impairment in Apparently Healthy Human Hearts. <i>Diabetes Care</i> , 2021 , 44, e82-e84	14.6	2
165	Treatment of donor-specific antibody-mediated rejection after heart transplantation by IgM-enriched human immunoglobulin. <i>ESC Heart Failure</i> , 2021 , 8, 3413-3417	3.7	1
164	Less Invasive Left Ventricular Assist Device Implantation With the Furoshiki Technique. <i>Annals of Thoracic Surgery</i> , 2021 , 111, e451-e453	2.7	
163	Coronary artery bypass grafting under sole Impella 5.0 support for patients with severely depressed left ventricular function. <i>Journal of Artificial Organs</i> , 2021 , 1	1.8	1
162	Extracorporeal Membrane Oxygenation after Heart Transplantation: Impact of Type of Cannulation. <i>Thoracic and Cardiovascular Surgeon</i> , 2021 , 69, 263-270	1.6	7
161	Valve-Sparing Root Replacement Without Cusp Repair for Regurgitant Quadricuspid Aortic Valve. <i>Annals of Thoracic Surgery</i> , 2021 , 111, e287-e289	2.7	
160	Multimodal mechanical circulatory assist for perioperative biventricular failure. <i>Journal of Cardiac Surgery</i> , 2021 , 36, 712-715	1.3	
159	Surgical results for prosthetic versus native valve endocarditis: A multicenter analysis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 161, 609-619.e10	1.5	6
158	Complications of left ventricular assist devices causing high urgency status on waiting list: impact on outcome after heart transplantation. <i>ESC Heart Failure</i> , 2021 , 8, 1253-1262	3.7	3
157	Fibrinogen-Albumin-Ratio is an independent predictor of thromboembolic complications in patients undergoing VA-ECMO. <i>Scientific Reports</i> , 2021 , 11, 16648	4.9	2
156	Outcome of patients with non-ischaeamic cardiogenic shock supported by percutaneous left ventricular assist device. <i>ESC Heart Failure</i> , 2021 , 8, 3594-3602	3.7	2
155	Postcardiotomy Veno-Arterial Extracorporeal Membrane Oxygenation: Does the Cannulation Technique Influence the Outcome?. <i>Frontiers in Cardiovascular Medicine</i> , 2021 , 8, 658412	5.4	0
154	Human myocardial mitochondrial oxidative capacity is impaired in mild acute heart transplant rejection. <i>ESC Heart Failure</i> , 2021 ,	3.7	1

153	Initial experience covering 50 consecutive cases of large Impella implantation at a single heart centre. <i>ESC Heart Failure</i> , 2021 ,	3.7	2
152	The quality of afterlife: surviving extracorporeal life support after therapy-refractory circulatory failure-a comprehensive follow-up analysis. <i>ESC Heart Failure</i> , 2021 ,	3.7	1
151	Cytomegalovirus mismatch after heart transplantation: Impact of antiviral prophylaxis and intravenous hyperimmune globulin. <i>Immunity, Inflammation and Disease</i> , 2021 , 9, 1554-1562	2.4	2
150	Degenerative changes of the aortic valve during left ventricular assist device support.. <i>ESC Heart Failure</i> , 2021 ,	3.7	1
149	Multimodal temporary mechanically circulatory assistance for primary graft dysfunction after heart transplantation: a case report.. <i>European Heart Journal - Case Reports</i> , 2021 , 5, ytab501	0.9	
148	Late reoperation after proximal repair of supraaortic stenosis for diffuse form of Williams-Beuren syndrome. <i>JTCVS Techniques</i> , 2020 , 3, 79-81	0.2	3
147	Prüfung von Ischämie-/Reperfusionsschäden. <i>Zeitschrift Für Herz-, Thorax- Und Gefasschirurgie</i> , 2020 , 34, 374-380	0.1	
146	The Course of Circulating Small Extracellular Vesicles in Patients Undergoing Surgical Aortic Valve Replacement. <i>BioMed Research International</i> , 2020 , 2020, 6381396	3	4
145	Early results from a prospective, single-arm European trial on decellularized allografts for aortic valve replacement: the ARISE study and ARISE Registry data. <i>European Journal of Cardio-thoracic Surgery</i> , 2020 , 58, 1045-1053	3	8
144	Osteopontin as novel biomarker for reversibility of pressure overload induced left ventricular hypertrophy. <i>Biomarkers in Medicine</i> , 2020 , 14, 513-523	2.3	1
143	The Impact of Intraoperative Patient Blood Management on Quality Development in Cardiac Surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , 2020 , 34, 2655-2663	2.1	2
142	Bilirubin-A Possible Prognostic Mortality Marker for Patients with ECLS. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
141	Video-assisted minimally invasive resection of papillary fibroelastoma. <i>Asian Cardiovascular and Thoracic Annals</i> , 2020 , 28, 179-181	0.6	
140	Successful treatment of a severe case of rhabdomyolysis following heart transplantation by hemoadsorption. <i>Journal of Cardiac Surgery</i> , 2020 , 35, 940-941	1.3	
139	Parvovirus B19-induced angiogenesis in fulminant myocarditis. <i>European Heart Journal</i> , 2020 , 41, 1309	9.5	8
138	Health-related quality of life after heart surgery - Identification of high-risk patients: A cohort study. <i>International Journal of Surgery</i> , 2020 , 76, 171-177	7.5	3
137	Successful Heart Transplant in a Childhood Cancer Survivor With Chemoradiotherapy-Induced Cardiomyopathy. <i>Experimental and Clinical Transplantation</i> , 2020 , 18, 533-535	0.8	0
136	Controlled autologous recellularization and inhibited degeneration of decellularized vascular implants by side-specific coating with stromal cell-derived factor 1 and fibronectin. <i>Biomedical Materials (Bristol)</i> , 2020 , 15, 035013	3.5	3

135	Computational investigation of hemodynamics in hardshell venous reservoirs: A comparative study. <i>Artificial Organs</i> , 2020 , 44, 411-418	2.6	1
134	Heart transplantation in patients with ventricular assist devices: Impacts of the implantation technique and support duration. <i>Journal of Cardiac Surgery</i> , 2020 , 35, 352-359	1.3	4
133	Minimally invasive repair of the mitral valve partially affected by an in situ left atrial appendage occluder in a patient with end-stage renal disease. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2020 , 31, 585	1.8	
132	Atrial Thrombosis Caused by a Dislocated Left Atrial Appendage Closure Device After Mitral Valve Replacement. <i>JACC: Case Reports</i> , 2020 , 2, 2327-2330	1.2	
131	Chronic stable heart failure model in ovine species. <i>Artificial Organs</i> , 2020 , 44, 947-954	2.6	
130	Transforming growth factor- β promotes fibrosis but attenuates calcification of valvular tissue applied as a three-dimensional calcific aortic valve disease model. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2020 , 319, H1123-H1141	5.2	7
129	Verbesserte Biokompatibilität von dezellularisierten Gefäßimplantaten mit Stromal cell-derived factor 1 <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2020 , 34, 320-326	0.1	
128	Valve-Sparing Aortic Root Replacement as First-Choice Strategy in Acute Type a Aortic Dissection. <i>Frontiers in Surgery</i> , 2019 , 6, 46	2.3	7
127	The age-adjusted Charlson comorbidity index in minimally invasive mitral valve surgery. <i>European Journal of Cardio-thoracic Surgery</i> , 2019 , 56, 1124-1130	3	3
126	Antibody-mediated rejection after cardiac transplant: Treatment with immunoadsorption, intravenous immunoglobulin, and anti-thymocyte globulin. <i>International Journal of Artificial Organs</i> , 2019 , 42, 370-373	1.9	1
125	Rapid Fluorescence-based Characterization of Single Extracellular Vesicles in Human Blood with Nanoparticle-tracking Analysis. <i>Journal of Visualized Experiments</i> , 2019 ,	1.6	7
124	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?. <i>General Thoracic and Cardiovascular Surgery</i> , 2019 , 67, 577-584	1.6	1
123	Impact of hyperinsulinemia and hyperglycemia on valvular interstitial cells - A link between aortic heart valve degeneration and type 2 diabetes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2019 , 1865, 2526-2537	6.9	9
122	A magnetic resonance imaging-compatible small animal model under extracorporeal circulation. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2019 , 29, 612-614	1.8	
121	Successful transplantation of a heart donated 5 months after brain death of a pregnant young woman. <i>Journal of Heart and Lung Transplantation</i> , 2019 , 38, 1121	5.8	0
120	Influence of Laminin Coating on the Autologous In Vivo Recellularization of Decellularized Vascular Protheses. <i>Materials</i> , 2019 , 12,	3.5	5
119	Chirurgische Optionen bei Trikuspidalklappeninsuffizienz. <i>Aktuelle Kardiologie</i> , 2019 , 8, 145-152	0.1	
118	414-P: Insulin Secretion Capacity Relates to Human Ventricular Myocardial Mitochondrial Function. <i>Diabetes</i> , 2019 , 68, 414-P	0.9	

117	Die klassischen und minimal invasiven Verfahren der Bypassoperation: Welche Technik für welche Patienten?. <i>Aktuelle Kardiologie</i> , 2019 , 8, 298-308	0.1	
116	Native aortic valve derived extracellular matrix hydrogel for three dimensional culture analyses with improved biomimetic properties. <i>Biomedical Materials (Bristol)</i> , 2019 , 14, 035014	3.5	8
115	Targeting of cell-free DNA by DNase I diminishes endothelial dysfunction and inflammation in a rat model of cardiopulmonary bypass. <i>Scientific Reports</i> , 2019 , 9, 19249	4.9	14
114	Degenerative aortic valve disease and diabetes: Implications for a link between proteoglycans and diabetic disorders in the aortic valve. <i>Diabetes and Vascular Disease Research</i> , 2019 , 16, 254-269	3.3	14
113	Ventricular assist device in a patient with congenitally corrected transposition of the great arteries and situs inversus totalis. <i>International Journal of Artificial Organs</i> , 2019 , 42, 321-322	1.9	
112	Evaluation of Strategies in the Management of Infective Aortic Valve Endocarditis at German Cardiac Surgical Departments. <i>Thoracic and Cardiovascular Surgeon</i> , 2019 , 67, 624-630	1.6	1
111	Mechanistics of biomass discharge during whole-heart decellularization. <i>Biomedical Materials (Bristol)</i> , 2018 , 13, 035014	3.5	2
110	Reaktive Sauerstoffspezies und Gefäßregeneration. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2018 , 32, 242-247	0.1	
109	Implementation of the aortic no-touch technique to reduce stroke after off-pump coronary surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 156, 544-554.e4	1.5	25
108	Bioactive coating of decellularized vascular grafts with a temperature-sensitive VEGF-conjugated hydrogel accelerates autologous endothelialization in vivo. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2018 , 12, e513-e522	4.4	31
107	Characterization of the Epicardial Adipose Tissue in Decellularized Human-Scaled Whole Hearts: Implications for the Whole-Heart Tissue Engineering. <i>Tissue Engineering - Part A</i> , 2018 , 24, 682-693	3.9	3
106	Enzymes of the purinergic signaling system exhibit diverse effects on the degeneration of valvular interstitial cells in a 3-D microenvironment. <i>FASEB Journal</i> , 2018 , 32, 4356-4369	0.9	6
105	Previous Sternotomy as a Risk Factor in Minimally Invasive Mitral Valve Surgery. <i>Frontiers in Surgery</i> , 2018 , 5, 5	2.3	1
104	Additional unloading of the left ventricle using the Impella LP 2.5 during extracorporeal life support in cases of pulmonary congestion. <i>Journal of Surgical Case Reports</i> , 2018 , 2018, rjy302	0.6	4
103	Electrophysiological Stimulation of Whole Heart Constructs in an 8-Pole Electrical Field. <i>Artificial Organs</i> , 2018 , 42, E391-E405	2.6	3
102	Isolated Tricuspid Valve Surgery: A Single Institutional Experience with the Technique of Minimally Invasive Surgery via Right Minithoracotomy. <i>Thoracic and Cardiovascular Surgeon</i> , 2017 , 65, 606-611	1.6	11
101	Improvement of the in vivo cellular repopulation of decellularized cardiovascular tissues by a detergent-free, non-proteolytic, actin-disassembling regimen. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2017 , 11, 3530-3543	4.4	14
100	Comment on "Inverted orientation improves decellularization of whole porcine hearts" by Lee et al. <i>Acta Biomaterialia</i> , 2017 , 53, 643-644	10.8	1

99	Assessment of decellularization of heart bioimplants using a Raman spectroscopy method. <i>Journal of Biomedical Optics</i> , 2017 , 22, 91511	3.5	11
98	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. <i>General Thoracic and Cardiovascular Surgery</i> , 2017 , 65, 374-380	1.6	3
97	The impact of left ventricular stretching in model cultivations with neonatal cardiomyocytes in a whole-heart bioreactor. <i>Biotechnology and Bioengineering</i> , 2017 , 114, 1107-1117	4.9	10
96	A Rat Model for the In Vivo Assessment of Biological and Tissue-Engineered Valvular and Vascular Grafts. <i>Tissue Engineering - Part C: Methods</i> , 2017 , 23, 982-994	2.9	6
95	Four-year experience of providing mobile extracorporeal life support to out-of-center patients within a suprainstitutional network-Outcome of 160 consecutively treated patients. <i>Resuscitation</i> , 2017 , 121, 151-157	4	23
94	Complete recovery of fulminant peripartum cardiomyopathy on mechanical circulatory support combined with high-dose bromocriptine therapy. <i>ESC Heart Failure</i> , 2017 , 4, 641-644	3.7	12
93	Genetic profiling and surface proteome analysis of human atrial stromal cells and rat ventricular epicardium-derived cells reveals novel insights into their cardiogenic potential. <i>Stem Cell Research</i> , 2017 , 25, 183-190	1.6	5
92	Optimierung der Biofunktionalität und Struktur dezellularisierter kardiovaskulärer Implantate. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2017 , 31, 206-213	0.1	
91	Secretory products from epicardial adipose tissue from patients with type 2 diabetes impair mitochondrial oxidation in cardiomyocytes via activation of the cardiac renin-angiotensin system and induction of miR-208a. <i>Basic Research in Cardiology</i> , 2017 , 112, 2	11.8	34
90	Soluble CD14 inhibits contractile function and insulin action in primary adult rat cardiomyocytes. <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2017 , 1863, 365-374	6.9	2
89	Prognostic value of the new high sensitive cardiac troponin T assay (hs-cTnT) after coronary artery bypass grafting. <i>Acta Cardiologica</i> , 2017 , 72, 276-283	0.9	6
88	CPR, ECLS, BVAD and successful heart transplantation within 2 months: a single-centre case series in two young, high-urgency listed patients. <i>International Journal of Artificial Organs</i> , 2017 , 40, 647-650	1.9	
87	Focal induction of ROS-release to trigger local vascular degeneration. <i>PLoS ONE</i> , 2017 , 12, e0179342	3.7	10
86	Heart transplantation bridged by mechanical circulatory support in a HIV-positive patient. <i>Journal of Cardiac Surgery</i> , 2016 , 31, 559-61	1.3	6
85	Modulation of Immunologic Response by Preventive Everolimus Application in a Rat CPB Model. <i>Inflammation</i> , 2016 , 39, 1771-82	5.1	9
84	Kardiovaskuläres Tissue-Engineering. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2016 , 30, 57-64	0.1	
83	Single-centre experience of mitral valve surgery via right lateral mini-thoracotomy in octogenarians. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2016 , 22, 287-90	1.8	3
82	Whole-Heart Construct Cultivation Under 3D Mechanical Stimulation of the Left Ventricle. <i>Methods in Molecular Biology</i> , 2016 , 1502, 181-94	1.4	3

81	Septic-Metastasizing Aspergillus-Encephalitis Mimicking Massive Cerebral Infarction in a Heart Transplant Recipient: A Case Report. <i>Experimental and Clinical Transplantation</i> , 2016 , 14, 349-52	0.8	
80	The extracellular isoform of superoxide dismutase has a significant impact on cardiovascular ischaemia and reperfusion injury during cardiopulmonary bypass. <i>European Journal of Cardio-thoracic Surgery</i> , 2016 , 50, 1035-1044	3	14
79	Outcome analysis for prediction of early and long-term survival in patients receiving intra-aortic balloon pumping after cardiac surgery. <i>General Thoracic and Cardiovascular Surgery</i> , 2016 , 64, 584-91	1.6	4
78	Customized Interface Biofunctionalization of Decellularized Extracellular Matrix: Toward Enhanced Endothelialization. <i>Tissue Engineering - Part C: Methods</i> , 2016 , 22, 496-508	2.9	26
77	Selenium Pretreatment for Mitigation of Ischemia/Reperfusion Injury in Cardiovascular Surgery: Influence on Acute Organ Damage and Inflammatory Response. <i>Inflammation</i> , 2016 , 39, 1363-76	5.1	17
76	A Suprainstitutional Network for Remote Extracorporeal Life Support: A Retrospective Cohort Study. <i>JACC: Heart Failure</i> , 2016 , 4, 698-708	7.9	46
75	Challenges in developing a reseeded, tissue-engineered aortic valve prosthesis. <i>European Journal of Cardio-thoracic Surgery</i> , 2016 , 50, 446-55	3	8
74	VALIDATION OF LOSS-COEFFICIENT-BASED OUTLET BOUNDARY CONDITIONS FOR SIMULATING AORTIC FLOW. <i>Journal of Mechanics in Medicine and Biology</i> , 2016 , 16, 1650011	0.7	3
73	Whole-Heart Tissue Engineering: Use of Three-Dimensional Matrix Scaffolds 2015 , 215-237		
72	Dispersive aortic cannulas reduce aortic wall shear stress affecting atherosclerotic plaque embolization. <i>Artificial Organs</i> , 2015 , 39, 203-11	2.6	7
71	Successful treatment of fulminant pulmonary embolism with extracorporeal life support and simultaneous systemic thrombolytic therapy after 1 h of cardiopulmonary resuscitation. <i>General Thoracic and Cardiovascular Surgery</i> , 2015 , 63, 664-6	1.6	1
70	Additional right-sided upper "Half-Mini-Thoracotomy" for aortocoronary bypass grafting during minimally invasive multivessel revascularization. <i>Journal of Cardiothoracic Surgery</i> , 2015 , 10, 130	1.6	5
69	An innovative method for exosome quantification and size measurement. <i>Journal of Visualized Experiments</i> , 2015 , 50974	1.6	50
68	Transcatheter treatment of tricuspid regurgitation by caval valve implantation--experimental evaluation of decellularized tissue valves in central venous position. <i>Catheterization and Cardiovascular Interventions</i> , 2015 , 85, 150-60	2.7	21
67	Rheology of perfusates and fluid dynamical effects during whole organ decellularization: a perspective to individualize decellularization protocols for single organs. <i>Biofabrication</i> , 2015 , 7, 035008	10.5	10
66	FTO Is Associated with Aortic Valve Stenosis in a Gender Specific Manner of Heterozygote Advantage: A Population-Based Case-Control Study. <i>PLoS ONE</i> , 2015 , 10, e0139419	3.7	2
65	Blood Cyst of the Anterior Leaflet of the Mitral Valve in an Asymptomatic Adult: Is Surgery an Objective?. <i>Heart Surgery Forum</i> , 2015 , 18, E196-7	0.7	1
64	Thrombin receptor protease-activated receptor 4 is a key regulator of exaggerated intimal thickening in diabetes mellitus. <i>Circulation</i> , 2014 , 130, 1700-11	16.7	20

63	The degeneration of biological cardiovascular prostheses under pro-calcific metabolic conditions in a small animal model. <i>Biomaterials</i> , 2014 , 35, 7416-28	15.6	26
62	Dezellularisierte Aorten-Conduits und ihre Biokompatibilität. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2014 , 28, 456-463	0.1	
61	A cardiopulmonary bypass with deep hypothermic circulatory arrest rat model for the investigation of the systemic inflammation response and induced organ damage. <i>Journal of Inflammation</i> , 2014 , 11, 26	6.7	27
60	Simvastatin does not diminish the in vivo degeneration of decellularized aortic conduits. <i>Journal of Cardiovascular Pharmacology</i> , 2014 , 64, 332-42	3.1	7
59	A novel culture device for the evaluation of three-dimensional extracellular matrix materials. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 673-81	4.4	3
58	Tracheal cartilage - evaluating the potential of a novel biomaterial for reconstructive cardiovascular procedures. <i>Journal of Tissue Engineering and Regenerative Medicine</i> , 2014 , 8, 850-61	4.4	
57	Readmission to the intensive care unit in times of minimally invasive cardiac surgery: does size matter?. <i>Heart Surgery Forum</i> , 2014 , 17, E296-301	0.7	1
56	Impact of severe postoperative complications after cardiac surgery on mortality in patients aged over 80 years. <i>Annals of Thoracic and Cardiovascular Surgery</i> , 2014 , 20, 383-9	1.8	13
55	Chirurgischer Aortenklappenersatz. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2013 , 27, 158-165	0.1	0
54	Activin A impairs insulin action in cardiomyocytes via up-regulation of miR-143. <i>Cardiovascular Research</i> , 2013 , 100, 201-10	9.9	49
53	Acceleration of autologous in vivo recellularization of decellularized aortic conduits by fibronectin surface coating. <i>Biomaterials</i> , 2013 , 34, 6015-26	15.6	87
52	A novel customizable modular bioreactor system for whole-heart cultivation under controlled 3D biomechanical stimulation. <i>Journal of Artificial Organs</i> , 2013 , 16, 294-304	1.8	43
51	Cardiac surgery in nonagenarians: not only feasible, but also reasonable?. <i>Interactive Cardiovascular and Thoracic Surgery</i> , 2013 , 17, 340-3; discussion 343	1.8	22
50	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. <i>Circulation Journal</i> , 2013 , 77, 2295-302	2.9	9
49	A novel native derived coronary artery tissue-flap model. <i>Tissue Engineering - Part C: Methods</i> , 2013 , 19, 970-80	2.9	13
48	Cardioprotective properties of omentin-1 in type 2 diabetes: evidence from clinical and in vitro studies. <i>PLoS ONE</i> , 2013 , 8, e59697	3.7	65
47	Influence of prosthesis type on long-term survival after re-replacement of aortic valve prosthesis. <i>Heart Surgery Forum</i> , 2013 , 16, E298-302	0.7	1
46	Decellularized whole heart for bioartificial heart. <i>Methods in Molecular Biology</i> , 2013 , 1036, 163-78	1.4	25

45	Die Arbeitsgemeinschaft Aortenklappenchirurgie stellt sich vor. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2012 , 26, 78-79	0.1	
44	Transplantation material bovine pericardium: biomechanical and immunogenic characteristics after decellularization vs. glutaraldehyde-fixing. <i>Xenotransplantation</i> , 2012 , 19, 286-97	2.8	65
43	Development of a growing rat model for the in vivo assessment of engineered aortic conduits. <i>Journal of Surgical Research</i> , 2012 , 176, 367-75	2.5	38
42	Pulsatile extracorporeal circulation during on-pump cardiac surgery enhances aortic wall shear stress. <i>Journal of Biomechanics</i> , 2012 , 45, 156-63	2.9	36
41	Is simultaneous splenectomy an additive risk factor in surgical treatment for active endocarditis?. <i>Langenbeck's Archives of Surgery</i> , 2012 , 397, 1261-6	3.4	6
40	Gezielte dreidimensionale Zellausrichtung und -elongation in artifiziellen Geweben. <i>Zeitschrift Fur Herz-, Thorax- Und Gefasschirurgie</i> , 2012 , 26, 188-195	0.1	
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