Payam Akhyari

List of Publications by Year
in descending order

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223 papers	3,866 citations	147566 31 h-index	155451 55 g-index
255 all docs	255 docs citations	255 times ranked	5526 citing authors

#	Article	IF	Citations
1	Directed 3D cell alignment and elongation in microengineered hydrogels. Biomaterials, 2010, 31, 6941-6951.	5.7	463
2	Secretory Products From Epicardial Adipose Tissue of Patients With Type 2 Diabetes Mellitus Induce Cardiomyocyte Dysfunction. Circulation, 2012, 126, 2324-2334.	1.6	155
3	Mechanical stretch regimen enhances the formation of bioengineered autologous cardiac muscle grafts. Circulation, 2002, 106, I137-42.	1.6	135
4	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, 915-926.	1.1	132
5	In vitro engineering of heart muscle: Artificial myocardial tissue. Journal of Thoracic and Cardiovascular Surgery, 2002, 124, 63-69.	0.4	128
6	Mechanical Stretch Regimen Enhances the Formation of Bioengineered Autologous Cardiac Muscle Grafts. Circulation, 2002, 106, .	1.6	115
7	Myocardial tissue engineering: the extracellular matrixâˆ†. European Journal of Cardio-thoracic Surgery, 2008, 34, 229-241.	0.6	112
8	Acceleration of autologous inÂvivo recellularization of decellularized aortic conduits by fibronectin surface coating. Biomaterials, 2013, 34, 6015-6026.	5.7	106
9	Sternal microcirculation after skeletonized versus pedicled harvesting of the internal thoracic artery: A randomized study. Journal of Thoracic and Cardiovascular Surgery, 2008, 135, 32-37.	0.4	100
10	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, 463-473.	1.1	97
11	Pulsatile perfusion and cardiomyocyte viability in a solid three-dimensional matrix. Biomaterials, 2003, 24, 5009-5014.	5.7	91
12	Cardioprotective Properties of Omentin-1 in Type 2 Diabetes: Evidence from Clinical and In Vitro Studies. PLoS ONE, 2013, 8, e59697.	1.1	87
13	Transplantation material bovine pericardium: biomechanical and immunogenic characteristics after decellularization vs. glutaraldehydeâ€fixing. Xenotransplantation, 2012, 19, 286-297.	1.6	76
14	An Innovative Method for Exosome Quantification and Size Measurement. Journal of Visualized Experiments, 2015, , 50974.	0.2	70
15	A Suprainstitutional Network for RemoteÂExtracorporeal Life Support. JACC: Heart Failure, 2016, 4, 698-708.	1.9	62
16	Cytokine Hemoadsorption During Cardiac Surgery Versus Standard Surgical Care for Infective Endocarditis (REMOVE): Results From a Multicenter Randomized Controlled Trial. Circulation, 2022, 145, 959-968.	1.6	61
17	Activin A impairs insulin action in cardiomyocytes via up-regulation of miR-143. Cardiovascular Research, 2013, 100, 201-210.	1.8	57
18	A novel customizable modular bioreactor system for whole-heart cultivation under controlled 3D biomechanical stimulation. Journal of Artificial Organs, 2013, 16, 294-304.	0.4	49

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19	Secretory products from epicardial adipose tissue from patients with type 2 diabetes impair mitochondrial Î²-oxidation in cardiomyocytes via activation of the cardiac reninâ€“angiotensin system and induction of miR-208a. Basic Research in Cardiology, 2017, 112, 2.	2.5	47
20	A novel bioartificial myocardial tissue and its prospective use in cardiac surgery. European Journal of Cardio-thoracic Surgery, 2002, 22, 238-243.	0.6	44
21	Development of a Growing Rat Model for the InÂVivo Assessment of Engineered Aortic Conduits. Journal of Surgical Research, 2012, 176, 367-375.	0.8	42
22	Pulsatile extracorporeal circulation during on-pump cardiac surgery enhances aortic wall shear stress. Journal of Biomechanics, 2012, 45, 156-163.	0.9	40
23	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.	1.3	39
24	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.	1.5	38
25	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.	0.4	38
26	Clinically Established Hemostatic Scaffold (Tissue Fleece) as Biomatrix in Tissue- and Organ-Engineering Research. Tissue Engineering, 2003, 9, 517-523.	4.9	37
27	Stem cells used for cardiovascular tissue engineeringâ˜†. European Journal of Cardio-thoracic Surgery, 2008, 34, 242-247.	0.6	36
28	In vivo functional performance and structural maturation of decellularised allogenic aortic valves in the subcoronary positionâ˜†â˜†â˜†. European Journal of Cardio-thoracic Surgery, 2010, 38, 539-546.	0.6	35
29	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, 665-670.	0.5	33
30	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.	1.5	32
31	Decellularized Whole Heart for Bioartificial Heart. Methods in Molecular Biology, 2013, 1036, 163-178.	0.4	32
32	Customized Interface Biofunctionalization of Decellularized Extracellular Matrix: Toward Enhanced Endothelialization. Tissue Engineering - Part C: Methods, 2016, 22, 496-508.	1.1	31
33	The degeneration of biological cardiovascular prostheses under pro-calcific metabolic conditions in a small animal model. Biomaterials, 2014, 35, 7416-7428.	5.7	30
34	Four-year experience of providing mobile extracorporeal life support to out-of-center patients within a suprainstitutional networkâ€”Outcome of 160 consecutively treated patients. Resuscitation, 2017, 121, 151-157.	1.3	30
35	Thrombin Receptor Protease-Activated Receptor 4 Is a Key Regulator of Exaggerated Intimal Thickening in Diabetes Mellitus. Circulation, 2014, 130, 1700-1711.	1.6	28
36	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.	1.6	28

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37	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.	0.6	28
38	Bioartificial grafts for transmural myocardial restoration: a new cardiovascular tissue culture concept. European Journal of Cardio-thoracic Surgery, 2003, 24, 906-911.	0.6	27
39	Cardiac surgery in nonagenarians: not only feasible, but also reasonable?â€. Interactive Cardiovascular and Thoracic Surgery, 2013, 17, 340-343.	0.5	27
40	Opposite Effects of Transforming Growth Factor-Î²1 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, 3737-3746.	1.6	26
41	Vacuum-Assisted Wound Closure is Superior to Primary Rewiring in Patients with Deep Sternal Wound Infection. Thoracic and Cardiovascular Surgeon, 2011, 59, 25-29.	0.4	26
42	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.	0.9	22
43	Traveling after heart transplantation. Clinical Transplantation, 2002, 16, 280-284.	0.8	21
44	Heparin-induced Thrombocytopenia Type II after Cardiac Surgery: Predictors and Outcome. Thoracic and Cardiovascular Surgeon, 2010, 58, 463-467.	0.4	21
45	Transcatheter treatment of tricuspid regurgitation by caval valve implantationâ€"experimental evaluation of decellularized tissue valves in central venous position. Catheterization and Cardiovascular Interventions, 2015, 85, 150-160.	0.7	21
46	Transforming growth factor-Î²1 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.	1.5	21
47	Open chest management after cardiac operations: outcome and timing of delayed sternal closure. European Journal of Cardio-thoracic Surgery, 2011, 40, 1146-50.	0.6	20
48	Selenium Pretreatment for Mitigation of Ischemia/Reperfusion Injury in Cardiovascular Surgery: Influence on Acute Organ Damage and Inflammatory Response. Inflammation, 2016, 39, 1363-1376.	1.7	20
49	Surgical results for prosthetic versus native valve endocarditis: A multicenter analysis. Journal of Thoracic and Cardiovascular Surgery, 2021, 161, 609-619.e10.	0.4	20
50	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.	1.4	19
51	Appropriate Timing of Coronary Artery Bypass Grafting after Acute Myocardial Infarction. Thoracic and Cardiovascular Surgeon, 2012, 60, 446-451.	0.4	18
52	Parvovirus B19-induced angiogenesis in fulminant myocarditis. European Heart Journal, 2020, 41, 1309-1309.	1.0	18
53	Impact of Severe Postoperative Complications after Cardiac Surgery on Mortality in Patients Aged over 80 Years. Annals of Thoracic and Cardiovascular Surgery, 2014, 20, 383-389.	0.3	18
54	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.	0.6	17

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55	Assessment of decellularization of heart bioimplants using a Raman spectroscopy method. Journal of Biomedical Optics, 2017, 22, 091511.	1.4	17
56	Impact of hyperinsulinemia and hyperglycemia on valvular interstitial cells â€“ A link between aortic heart valve degeneration and type 2 diabetes. Biochimica Et Biophysica Acta - Molecular Basis of Disease, 2019, 1865, 2526-2537.	1.8	16
57	AdipoRon Attenuates Inflammation and Impairment of Cardiac Function Associated With Cardiopulmonary Bypassâ€“Induced Systemic Inflammatory Response Syndrome. Journal of the American Heart Association, 2021, 10, e018097.	1.6	16
58	A Novel Native Derived Coronary Artery Tissue-Flap Model. Tissue Engineering - Part C: Methods, 2013, 19, 970-980.	1.1	15
59	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.	1.3	15
60	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.	0.4	14
61	Extracorporeal Membrane Oxygenation after Heart Transplantation: Impact of Type of Cannulation. Thoracic and Cardiovascular Surgeon, 2021, 69, 263-270.	0.4	14
62	Complete recovery of fulminant peripartum cardiomyopathy on mechanical circulatory support combined with highâ€dose bromocriptine therapy. ESC Heart Failure, 2017, 4, 641-644.	1.4	13
63	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.	1.5	12
64	Aortic Conduit Valve Model With Controlled Moderate Aortic Regurgitation in Rats. Circulation Journal, 2013, 77, 2295-2302.	0.7	12
65	The impact of left ventricular stretching in model cultivations with neonatal cardiomyocytes in a wholeâ€heart bioreactor. Biotechnology and Bioengineering, 2017, 114, 1107-1117.	1.7	12
66	Focal induction of ROS-release to trigger local vascular degeneration. PLoS ONE, 2017, 12, e0179342.	1.1	12
67	Who needs â€˜bridgeâ€™ to transplantation in the presence of the Eurotransplant high-urgency heart transplantation program?. European Journal of Cardio-thoracic Surgery, 2008, 34, 1129-1133.	0.6	11
68	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, 191-198.	0.4	11
69	Rheology of perfusates and fluid dynamical effects during whole organ decellularization: A perspective to individualize decellularization protocols for single organs. Biofabrication, 2015, 7, 035008.	3.7	11
70	Native aortic valve derived extracellular matrix hydrogel for three dimensional culture analyses with improved biomimetic properties. Biomedical Materials (Bristol), 2019, 14, 035014.	1.7	11
71	Reproducible In Vitro Tissue Culture Model to Study Basic Mechanisms of Calcific Aortic Valve Disease: Comparative Analysis to Valvular Interstitials Cells. Biomedicines, 2021, 9, 474.	1.4	11
72	Delayed Sternal Closure (DSC) After Cardiac Surgery: Outcome and Prognostic Markers. Journal of Cardiac Surgery, 2011, 26, 22-27.	0.3	10

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73	Challenges in developing a reseeded, tissue-engineered aortic valve prosthesis. European Journal of Cardio-thoracic Surgery, 2016, 50, 446-455.	0.6	10
74	Modulation of Immunologic Response by Preventive Everolimus Application in a Rat CPB Model. Inflammation, 2016, 39, 1771-1782.	1.7	10
75	<sup />A Rat Model for theIn VivoAssessment of Biological and Tissue-Engineered Valvular and Vascular Grafts. Tissue Engineering - Part C: Methods, 2017, 23, 982-994.	1.1	10
76	Valve-Sparing Aortic Root Replacement as First-Choice Strategy in Acute Type a Aortic Dissection. Frontiers in Surgery, 2019, 6, 46.	0.6	10
77	Rapid Fluorescence-based Characterization of Single Extracellular Vesicles in Human Blood with Nanoparticle-tracking Analysis. Journal of Visualized Experiments, 2019, , .	0.2	10
78	The Course of Circulating Small Extracellular Vesicles in Patients Undergoing Surgical Aortic Valve Replacement. BioMed Research International, 2020, 2020, 1-12.	0.9	10
79	Heparin-Induced Thrombocytopenia under Mechanical Circulatory Support by Large Impella for Acute Cardiogenic Shock. Journal of Cardiovascular Development and Disease, 2021, 8, 161.	0.8	10
80	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, 1290-1292.	0.4	9
81	Is simultaneous splenectomy an additive risk factor in surgical treatment for active endocarditis?. Langenbeck's Archives of Surgery, 2012, 397, 1261-1266.	0.8	9
82	Simvastatin Does Not Diminish the In Vivo Degeneration of Decellularized Aortic Conduits. Journal of Cardiovascular Pharmacology, 2014, 64, 332-342.	0.8	9
83	Dispersive Aortic Cannulas Reduce Aortic Wall Shear Stress Affecting Atherosclerotic Plaque Embolization. Artificial Organs, 2015, 39, 203-211.	1.0	9
84	Prognostic value of the new high sensitive cardiac troponin T assay (hs-cTnT) after coronary artery bypass grafting. Acta Cardiologica, 2017, 72, 276-283.	0.3	9
85	The age-adjusted Charlson comorbidity index in minimally invasive mitral valve surgery. European Journal of Cardio-thoracic Surgery, 2019, 56, 1124-1130.	0.6	9
86	Controlled autologous recellularization and inhibited degeneration of decellularized vascular implants by side-specific coating with stromal cell-derived factor 1Î± and fibronectin. Biomedical Materials (Bristol), 2020, 15, 035013.	1.7	9
87	Successful Heart Transplantation after Cardiopulmonary Resuscitation of Donors. Thoracic and Cardiovascular Surgeon, 2021, 69, 504-510.	0.4	9
88	Impact of Reported Donor Ejection Fraction on Outcome after Heart Transplantation. Thoracic and Cardiovascular Surgeon, 2021, 69, 490-496.	0.4	9
89	Levosimendan for Treatment of Primary Graft Dysfunction After Heart Transplantation: Optimal Timing of Application. Experimental and Clinical Transplantation, 2021, 19, 473-480.	0.2	9
90	Outcome of patients with nonâ€ischaemic cardiogenic shock supported by percutaneous left ventricular assist device. ESC Heart Failure, 2021, 8, 3594-3602.	1.4	9

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91	Initial experience covering 50 consecutive cases of large Impella implantation at a single heart centre. ESC Heart Failure, 2021, 8, 5168-5177.	1.4	9
92	Iron deficiency does not impair the outcome after elective coronary artery bypass and aortic valve procedures. Journal of Cardiac Surgery, 2021, 36, 542-550.	0.3	9
93	Life impact of VAâ€ECMO due to primary graft dysfunction in patients after orthotopic heart transplantation. ESC Heart Failure, 2021, , .	1.4	9
94	Degenerative changes of the aortic valve during left ventricular assist device support. ESC Heart Failure, 2022, 9, 270-282.	1.4	9
95	Carboxyfluorescein Diacetate Succinimidyl Ester Facilitates Cell Tracing and Colocalization Studies in Bioartificial Organ Engineering. International Journal of Artificial Organs, 2003, 26, 235-240.	0.7	8
96	Aortic Root and Ascending Aortic Replacement Bentall or Ross Procedure?. International Heart Journal, 2009, 50, 47-57.	0.5	8
97	Enzymes of the purinergic signaling system exhibit diverse effects on the degeneration of valvular interstitial cells in a 3â€Ð microenvironment. FASEB Journal, 2018, 32, 4356-4369.	0.2	8
98	Influence of Laminin Coating on the Autologous In Vivo Recellularization of Decellularized Vascular Protheses. Materials, 2019, 12, 3351.	1.3	8
99	Heart transplantation in patients with ventricular assist devices: Impacts of the implantation technique and support duration. Journal of Cardiac Surgery, 2020, 35, 352-359.	0.3	8
100	Health-related quality of life after heart surgery â€“ Identification of high-risk patients: A cohort study. International Journal of Surgery, 2020, 76, 171-177.	1.1	8
101	Impact of mitral valve repair in patients with mitral regurgitation undergoing coronary artery bypass grafting. Acta Cardiologica, 2010, 65, 441-7.	0.3	8
102	Additional right-sided upper â€œHalf-Mini-Thoracotomyâ€•for aortocoronary bypass grafting during minimally invasive multivessel revascularization. Journal of Cardiothoracic Surgery, 2015, 10, 130.	0.4	7
103	Cytomegalovirus mismatch after heart transplantation: Impact of antiviral prophylaxis and intravenous hyperimmune globulin. Immunity, Inflammation and Disease, 2021, 9, 1554-1562.	1.3	7
104	Heart transplantation bridged by mechanical circulatory support in a HIV-positive patient. Journal of Cardiac Surgery, 2016, 31, 559-561.	0.3	6
105	Single-centre experience of mitral valve surgery via right lateral mini-thoracotomy in octogenarians. Interactive Cardiovascular and Thoracic Surgery, 2016, 22, 287-290.	0.5	6
106	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.	0.3	6
107	Osteopontin as novel biomarker for reversibility of pressure overload induced left ventricular hypertrophy. Biomarkers in Medicine, 2020, 14, 513-523.	0.6	6
108	The Impact of Intraoperative Patient Blood Management on Quality Development in Cardiac Surgery. Journal of Cardiothoracic and Vascular Anesthesia, 2020, 34, 2655-2663.	0.6	6

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109	Fibrinogenâ€“Albumin-Ratio is an independent predictor of thromboembolic complications in patients undergoing VA-ECMO. Scientific Reports, 2021, 11, 16648.	1.6	6
110	Effect of preoperative erector spinae muscles mass on postoperative outcomes in patients with left ventricular assist devices. Journal of Cardiac Surgery, 2022, 37, 297-304.	0.3	6
111	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, 584-591.	0.4	5
112	Degeneration of Aortic Valves in a Bioreactor System with Pulsatile Flow. Biomedicines, 2021, 9, 462.	1.4	5
113	Exposure to Type 2 Diabetes Provokes Mitochondrial Impairment in Apparently Healthy Human Hearts. Diabetes Care, 2021, 44, e82-e84.	4.3	5
114	Coronary artery bypass grafting under sole Impella 5.0 support for patients with severely depressed left ventricular function. Journal of Artificial Organs, 2022, 25, 158-162.	0.4	5
115	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.	1.1	5
116	Heart Transplantation of the Elderlyâ€”Old Donors for Old Recipients: Can We Still Achieve Acceptable Results?. Journal of Clinical Medicine, 2022, 11, 929.	1.0	5
117	Days alive and out of hospital after left ventricular assist device implantation. ESC Heart Failure, 2022, 9, 2455-2463.	1.4	5
118	Determinants of Bioartificial Myocardial Graft Survival and Engraftment In Vivo. Journal of Heart and Lung Transplantation, 2008, 27, 1242-1250.	0.3	4
119	Whole-Heart Construct Cultivation Under 3D Mechanical Stimulation of the Left Ventricle. Methods in Molecular Biology, 2015, 1502, 181-194.	0.4	4
120	VALIDATION OF LOSS-COEFFICIENT-BASED OUTLET BOUNDARY CONDITIONS FOR SIMULATING AORTIC FLOW. Journal of Mechanics in Medicine and Biology, 2016, 16, 1650011.	0.3	4
121	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.	1.6	4
122	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.	0.2	4
123	Electrophysiological Stimulation of Whole Heart Constructs in an 8â€Pole Electrical Field. Artificial Organs, 2018, 42, E391-E405.	1.0	4
124	Bilirubinâ€”A Possible Prognostic Mortality Marker for Patients with ECLS. Journal of Clinical Medicine, 2020, 9, 1727.	1.0	4
125	Impact of standardized computed tomographic angiography for minimally invasive mitral and tricuspid valve surgery. Journal of Cardiothoracic Surgery, 2021, 16, 34.	0.4	4
126	Postcardiotomy Veno-Arterial Extracorporeal Membrane Oxygenation: Does the Cannulation Technique Influence the Outcome?. Frontiers in Cardiovascular Medicine, 2021, 8, 658412.	1.1	4

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127	Human myocardial mitochondrial oxidative capacity is impaired in mild acute heart transplant rejection. ESC Heart Failure, 2021, , .	1.4	4
128	The quality of afterlife: surviving extracorporeal life support after therapyâ€refractory circulatory failureâ€"a comprehensive followâ€up analysis. ESC Heart Failure, 2021, 8, 4968-4975.	1.4	4
129	A Role for Peroxisome Proliferator-Activated Receptor Gamma Agonists in Counteracting the Degeneration of Cardiovascular Grafts. Journal of Cardiovascular Pharmacology, 2022, 79, e103-e115.	0.8	4
130	Thromboembolic Events in Patients With Left Ventricular Assist Devices Are Related to Microparticle-Induced Coagulation. ASAIO Journal, 2021, 67, 59-66.	0.9	4
131	Outcome of Patients Supported by Large Impella Systems After Re-implantation Due to Continued or Recurrent Need of Temporary Mechanical Circulatory Support. Frontiers in Cardiovascular Medicine, 0, 9, .	1.1	4
132	A novel culture device for the evaluation of three-dimensional extracellular matrix materials. Journal of Tissue Engineering and Regenerative Medicine, 2014, 8, 673-681.	1.3	3
133	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.	0.4	3
134	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.	1.8	3
135	Antibody-mediated rejection after cardiac transplant: Treatment with immunoadsorption, intravenous immunoglobulin, and anti-thymocyte globulin. International Journal of Artificial Organs, 2019, 42, 370-373.	0.7	3
136	Computational investigation of hemodynamics in hardshell venous reservoirs: A comparative study. Artificial Organs, 2020, 44, 411-418.	1.0	3
137	Late reoperation after proximal repair of supravalvular stenosis for diffuse form of Williamsâ€"Beuren syndrome. JTCVS Techniques, 2020, 3, 79-81.	0.2	3
138	Treatment of donorâ€specific antibodyâ€mediated rejection after heart transplantation by IgMâ€enriched human immunoglobulin. ESC Heart Failure, 2021, 8, 3413-3417.	1.4	3
139	Altered mRNA Expression of Interleukin-1 Receptors in Myocardial Tissue of Patients with Left Ventricular Assist Device Support. Journal of Clinical Medicine, 2021, 10, 4856.	1.0	3
140	Neutrophil-lymphoycyte-ratio, platelet-lymphocyte-ratio and procalcitonin for early assessment of prognosis in patients undergoing VA-ECMO. Scientific Reports, 2022, 12, 542.	1.6	3
141	Intracerebral bleeding in donors is associated with reduced shortâ€term to midterm survival of heart transplant recipients. ESC Heart Failure, 2022, , .	1.4	3
142	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, 343-350.	0.4	2
143	Mechanistics of biomass discharge during whole-heart decellularization. Biomedical Materials (Bristol), 2018, 13, 035014.	1.7	2
144	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.	0.3	2

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145	Evaluation of Strategies in the Management of Infective Aortic Valve Endocarditis at German Cardiac Surgical Departments. Thoracic and Cardiovascular Surgeon, 2019, 67, 624-630.	0.4	2
146	Use of Organs for Heart Transplantation after Rescue Allocation: Comparison of Outcome with Regular Allocated High Urgent Recipients. Thoracic and Cardiovascular Surgeon, 2020, 69, 497-503.	0.4	2
147	Crosstalk of Diabetic Conditions with Static Versus Dynamic Flow Environmentâ€"Impact on Aortic Valve Remodeling. International Journal of Molecular Sciences, 2021, 22, 6976.	1.8	2
148	Role of Concomitant Coronary Artery Bypass Grafting in Valve Surgery for Infective Endocarditis. Journal of Clinical Medicine, 2021, 10, 2867.	1.0	2
149	Influence of Prosthesis Type on Long-Term Survival after Re-replacement of Aortic Valve Prosthesis. Heart Surgery Forum, 2013, 16, 298.	0.2	2
150	Readmission to the Intensive Care Unit in Times of Minimally Invasive Cardiac Surgery: Does Size Matter?. Heart Surgery Forum, 2014, 17, 296.	0.2	2
151	Adequate immune response after SARSâ€CoVâ€2 infection and single dose vaccination despite rapid heart transplantation. ESC Heart Failure, 2021, 8, 5568.	1.4	2
152	Impact of pretransplant left ventricular assist device support duration on outcome after heart transplantation. Interactive Cardiovascular and Thoracic Surgery, 2022, 34, 462-469.	0.5	2
153	Impact of the 2009 ESC Guideline Change on Surgically Treated Infective Endocarditis. Annals of Thoracic Surgery, 2022, 114, 1349-1356.	0.7	2
154	Outcome and Midterm Survival after Heart Transplantation Is Independent from Donor Length of Stay in the Intensive Care Unit. Life, 2022, 12, 1053.	1.1	2
155	Rationale and Initiative of the Impella in Cardiac Surgery (ImCarS) Register Platform. Thoracic and Cardiovascular Surgeon, 2022, 70, 458-466.	0.4	2
156	Successful treatment of fulminant pulmonary embolism with extracorporeal life support and simultaneous systemic thrombolytic therapy after 1Âh of cardiopulmonary resuscitation. General Thoracic and Cardiovascular Surgery, 2015, 63, 664-666.	0.4	1
157	Cardiac Troponin T in Heart Donors: Impact on Morbidity and Mortality After Transplantation. Journal of Heart and Lung Transplantation, 2016, 35, S210.	0.3	1
158	Comment on â€œInverted orientation improves decellularization of whole porcine heartsâ€•by Lee et al.. Acta Biomaterialia, 2017, 53, 643-644.	4.1	1
159	Previous Sternotomy as a Risk Factor in Minimally Invasive Mitral Valve Surgery. Frontiers in Surgery, 2018, 5, 5.	0.6	1
160	A magnetic resonance imaging-compatible small animal model under extracorporeal circulation. Interactive Cardiovascular and Thoracic Surgery, 2019, 29, 612-614.	0.5	1
161	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.	0.4	1
162	Early Detection of Imminent Morbidity after Heart Transplantation (htx) by Means of Procalcitonin (PCT) combined with Highly Sensitive Cardiac Troponin T (hs-cTNT). Journal of Heart and Lung Transplantation, 2019, 38, S291.	0.3	1

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