

Keith A Horvath

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/11536929/keith-a-horvath-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

112
papers

3,847
citations

26
h-index

61
g-index

119
ext. papers

4,591
ext. citations

4.7
avg, IF

4.67
L-index

#	Paper	IF	Citations
112	Cardiac Xenotransplantation: Progress in Preclinical Models and Prospects for Clinical Translation.. <i>Transplant International</i> , 2022 , 35, 10171	3	0
111	Expert Consensus: Telehealth Skills for Health Care Professionals. <i>Telemedicine Journal and E-Health</i> , 2021 , 27, 820-824	5.9	19
110	Risk for non-home discharge following surgery for ischemic mitral valve disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2021 , 162, 1769-1778.e7	1.5	3
109	Progression of Tricuspid Regurgitation After Surgery for Ischemic Mitral Regurgitation. <i>Journal of the American College of Cardiology</i> , 2021 , 77, 713-724	15.1	5
108	Finding the Value in Value-Based Care. <i>Annals of Thoracic Surgery</i> , 2021 , 112, 16-21	2.7	0
107	Preparing for the Future: Funding for Graduate Medical Education in Cardiothoracic Surgery. <i>Annals of Thoracic Surgery</i> , 2021 , 112, 1736-1740	2.7	
106	Comprehensive review of evaluation and management of cardiac paragangliomas. <i>Heart</i> , 2020 , 106, 1203-1210	3.1	2105
105	Transmyocardial Laser Revascularization 2020 , 261-267		
104	Neither Grail nor Fail-In Defense of Myocardial Cell Therapy: Reply. <i>Annals of Thoracic Surgery</i> , 2020 , 110, 2104-2105	2.7	
103	Intramyocardial Bone Marrow Stem Cells in Patients Undergoing Cardiac Surgical Revascularization. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1142-1149	2.7	11
102	Cost-effectiveness of coronary artery bypass grafting plus mitral valve repair versus coronary artery bypass grafting alone for moderate ischemic mitral regurgitation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020 , 159, 2230-2240.e15	1.5	4
101	Pacemaker Implantation After Mitral Valve Surgery With Atrial Fibrillation Ablation. <i>Journal of the American College of Cardiology</i> , 2019 , 73, 2427-2435	15.1	12
100	Intra-Abdominal Heterotopic Cardiac Xenotransplantation: Pearls and Pitfalls. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 95	5.4	0
99	Batrial maze procedure versus pulmonary vein isolation for atrial fibrillation during mitral valve surgery: New analytical approaches and end points. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2019 , 157, 234-243.e9	1.5	11
98	Cardiac xenografts show reduced survival in the absence of transgenic human thrombomodulin expression in donor pigs. <i>Xenotransplantation</i> , 2019 , 26, e12465	2.8	22
97	CD4+CD25 FoxP3+ regulatory T cells in long-term cardiac xenotransplantation. <i>Xenotransplantation</i> , 2018 , 25, e12379	2.8	13
96	Circulating cell-free DNA as a biomarker of tissue injury: Assessment in a cardiac xenotransplantation model. <i>Journal of Heart and Lung Transplantation</i> , 2018 , 37, 967-975	5.8	16

95	A Multidisciplinary Protocol-Driven Approach to Improve Extubation Times After Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2018 , 105, 1684-1690	2.7	8
94	Postoperative acute kidney injury following intraoperative blood product transfusions during cardiac surgery. <i>Perfusion (United Kingdom)</i> , 2018 , 33, 62-70	1.9	20
93	A multi-institutional cohort study confirming the risks of Clostridium difficile infection associated with prolonged antibiotic prophylaxis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 670-678.e1	1.5	13
92	Cost-Effectiveness of Mitral Valve Repair Versus Replacement for Severe Ischemic Mitral Regurgitation. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2018 , 11,	5.8	5
91	Novel Direct Annuloplasty Fastener System for Minimally Invasive Mitral Valve Repair. <i>Cardiovascular Engineering and Technology</i> , 2018 , 9, 53-59	2.2	3
90	Secondary surgical-site infection after coronary artery bypass grafting: A multi-institutional prospective cohort study. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018 , 155, 1555-1562.e1	1.5	16
89	Consideration of appropriate clinical applications for cardiac xenotransplantation. <i>Clinical Transplantation</i> , 2018 , 32, e13330	3.8	2
88	Surgical management of adult endocardial fibroelastosis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 154, e81-e84	1.5	2
87	Pneumonia after cardiac surgery: Experience of the National Institutes of Health/Canadian Institutes of Health Research Cardiothoracic Surgical Trials Network. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 153, 1384-1391.e3	1.5	45
86	Encouraging experience using multi-transgenic xenografts in a pig-to-baboon cardiac xenotransplantation model. <i>Xenotransplantation</i> , 2017 , 24, e12330	2.8	13
85	Routine Use of Topical Bacitracin to Prevent Sternal Wound Infections After Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2017 , 104, 1496-1500	2.7	3
84	Variation in Red Blood Cell Transfusion Practices During Cardiac Operations Among Centers in Maryland: Results From a State Quality-Improvement Collaborative. <i>Annals of Thoracic Surgery</i> , 2017 , 103, 152-160	2.7	18
83	Diabetes and the Association of Postoperative Hyperglycemia With Clinical and Economic Outcomes in Cardiac Surgery. <i>Diabetes Care</i> , 2016 , 39, 408-17	14.6	34
82	Robotic-assisted real-time MRI-guided TAVR: from system deployment to in vivo experiment in swine model. <i>International Journal of Computer Assisted Radiology and Surgery</i> , 2016 , 11, 1905-18	3.9	4
81	Chimeric 2C10R4 anti-CD40 antibody therapy is critical for long-term survival of GTKO.hCD46.hTBM pig-to-primate cardiac xenograft. <i>Nature Communications</i> , 2016 , 7, 11138	17.4	227
80	Real-time magnetic resonance imaging-guided transcatheter aortic valve replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 151, 1269-77	1.5	7
79	Robot-assisted real-time magnetic resonance image-guided transcatheter aortic valve replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016 , 151, 1407-12	1.5	7
78	Transapical sutureless aortic valve implantation under magnetic resonance imaging guidance: Acute and short-term results. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2015 , 149, 1067-72	1.5	4

77	Succinate dehydrogenase gene mutations in cardiac paragangliomas. <i>American Journal of Cardiology</i> , 2015 , 115, 1753-9	3	22
76	Surgical ablation of atrial fibrillation during mitral-valve surgery. <i>New England Journal of Medicine</i> , 2015 , 372, 1399-409	59.2	248
75	Early graft failure of GalTKO pig organs in baboons is reduced by expression of a human complement pathway-regulatory protein. <i>Xenotransplantation</i> , 2015 , 22, 310-6	2.8	55
74	Transmyocardial revascularization devices: technology update. <i>Medical Devices: Evidence and Research</i> , 2015 , 8, 11-9	1.5	6
73	The Impact of Various Wavelength Lasers on Myocardial Function following Transmyocardial Laser Revascularization 2015 , 287-303		
72	Mitral-valve repair versus replacement for severe ischemic mitral regurgitation. <i>New England Journal of Medicine</i> , 2014 , 370, 23-32	59.2	593
71	Regulatory T cells enhance mesenchymal stem cell survival and proliferation following autologous cotransplantation in ischemic myocardium. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 1131-7; discussion 1117	1.5	22
70	Management practices and major infections after cardiac surgery. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 372-81	15.1	87
69	Overexpression of FABP3 inhibits human bone marrow derived mesenchymal stem cell proliferation but enhances their survival in hypoxia. <i>Experimental Cell Research</i> , 2014 , 323, 56-65	4.2	20
68	Genetically engineered pigs and target-specific immunomodulation provide significant graft survival and hope for clinical cardiac xenotransplantation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2014 , 148, 1106-13; discussion 1113-4	1.5	84
67	Induced pluripotent stem cell transplantation in the treatment of porcine chronic myocardial ischemia. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 2130-7	2.7	10
66	Role of anti-CD40 antibody-mediated costimulation blockade on non-Gal antibody production and heterotopic cardiac xenograft survival in a GTKO.hCD46Tg pig-to-baboon model. <i>Xenotransplantation</i> , 2014 , 21, 35-45	2.8	55
65	Real-time magnetic resonance-guided aortic valve replacement using Engager valve. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 2194-9	2.7	4
64	Blood transfusion and infection after cardiac surgery. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 2194-201	2.7	184
63	Optimal surgical management of severe ischemic mitral regurgitation: to repair or to replace?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012 , 143, 1396-403	1.5	32
62	Ex-vivo expanded baboon CD4+ CD25 Hi Treg cells suppress baboon anti-pig T and B cell immune response. <i>Xenotransplantation</i> , 2012 , 19, 102-11	2.8	20
61	Long-term outcomes after transmyocardial revascularization. <i>Annals of Thoracic Surgery</i> , 2012 , 94, 1500-8	7	9
60	Minimally invasive cardiac surgery: transapical aortic valve replacement. <i>Minimally Invasive Surgery</i> , 2012 , 2012, 145381	1.3	1

59	Self-Expanding Stent and Delivery System for Aortic Valve Replacement. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012 , 6, 410061-410069	1.3	6
58	Marrow stromal cells differentiate into vasculature after allogeneic transplantation into ischemic myocardium. <i>Annals of Thoracic Surgery</i> , 2011 , 91, 1206-12	2.7	21
57	Transapical aortic valve replacement under real-time magnetic resonance imaging guidance: experimental results with balloon-expandable and self-expanding stents. <i>European Journal of Cardio-thoracic Surgery</i> , 2011 , 39, 822-8	3	19
56	Midterm results of transapical aortic valve replacement via real-time magnetic resonance imaging guidance. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010 , 139, 424-30	1.5	31
55	Rapid and dynamic alterations of gene expression profiles of adult porcine bone marrow-derived stem cell in response to hypoxia. <i>Stem Cell Research</i> , 2010 , 4, 117-28	1.6	12
54	Does laser type impact myocardial function following transmyocardial laser revascularization?. <i>Lasers in Surgery and Medicine</i> , 2010 , 42, 746-51	3.6	8
53	Direct injection of autologous mesenchymal stromal cells improves myocardial function. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 390, 902-7	3.4	43
52	Transmyocardial laser revascularization. <i>Journal of Cardiac Surgery</i> , 2008 , 23, 266-76	1.3	26
51	Characterization and expansion of baboon CD4+CD25+ Treg cells for potential use in a non-human primate xenotransplantation model. <i>Xenotransplantation</i> , 2007 , 14, 298-308	2.8	37
50	Beating heart aortic valve replacement using real-time MRI guidance. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2007 , 2, 51-5	1.5	16
49	Real-time magnetic resonance imaging guidance for cardiovascular procedures. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2007 , 19, 330-5	1.7	15
48	Beating Heart Aortic Valve Replacement Using Real-Time MRI Guidance. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , 2007 , 2, 51-55	1.5	1
47	Real-time interactive MRI-guided cardiac surgery: aortic valve replacement using a direct apical approach. <i>Magnetic Resonance in Medicine</i> , 2006 , 56, 958-64	4.4	100
46	Clinical results of sole therapy TMR treatment. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2006 , 18, 46-51	1.7	3
45	Light and ice cream. <i>Annals of Thoracic Surgery</i> , 2006 , 82, 771; author reply 771-2	2.7	0
44	Transmyocardial Laser Revascularization. <i>Fundamental and Clinical Cardiology</i> , 2006 , 383-400		
43	Impact of unstable angina on outcomes of transmyocardial laser revascularization combined with coronary artery bypass grafting. <i>Annals of Thoracic Surgery</i> , 2005 , 80, 2082-5	2.7	16
42	Improvement of myocardial contractility in a porcine model of chronic ischemia using a combined transmyocardial revascularization and gene therapy approach. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2005 , 129, 1071-7	1.5	17

41	The incidence of emboli during cardiac surgery: a histopathologic analysis of 2297 patients. <i>Heart Surgery Forum</i> , 2005 , 8, E161-6	0.7	3
40	Transmyocardial Laser Revascularization 2005 , 329-348		
39	Mechanisms and results of transmyocardial laser revascularization. <i>Cardiology</i> , 2004 , 101, 37-47	1.6	9
38	Transmyocardial Laser Revascularization. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2004 , 6, 53-59	2.1	2
37	The Society of Thoracic Surgeons practice guideline series: transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 2004 , 77, 1494-502	2.7	67
36	What is the optimal channel density for transmyocardial laser revascularization?. <i>Annals of Thoracic Surgery</i> , 2004 , 78, 1326-31; discussion 1326-31	2.7	3
35	Shedding light on denervation and transmyocardial laser revascularization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003 , 125, S74-S75	1.5	
34	Emboli capture using the Embol-X intraaortic filter in cardiac surgery: a multicentered randomized trial of 1,289 patients. <i>Annals of Thoracic Surgery</i> , 2003 , 76, 508-15; discussion 515	2.7	71
33	Transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 2002 , 73, 1355-6	2.7	0
32	Myocardial functional recovery after fibroblast growth factor 2 gene therapy as assessed by echocardiography and magnetic resonance imaging. <i>Annals of Thoracic Surgery</i> , 2002 , 74, 481-6; discussion 487	2.7	48
31	Results of prospective randomized controlled trials of transmyocardial laser revascularization. <i>Heart Surgery Forum</i> , 2002 , 5, 33-9; discussion 39-40	0.7	15
30	Shedding light on denervation and transmyocardial laser revascularization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001 , 122, 647-8	1.5	1
29	Sustained angina relief 5 years after transmyocardial laser revascularization with a CO(2) laser. <i>Circulation</i> , 2001 , 104, 181-4	16.7	57
28	Functional comparison of transmyocardial revascularization by mechanical and laser means. <i>Annals of Thoracic Surgery</i> , 2001 , 72, 1997-2002	2.7	21
27	Sustained Angina Relief 5 Years After Transmyocardial Laser Revascularization With a CO 2 Laser. <i>Circulation</i> , 2001 , 104,	16.7	1
26	Transmyocardial laser revascularization in the treatment of myocardial ischemia. <i>Journal of Cardiac Surgery</i> , 2000 , 15, 271-7	1.3	7
25	Postoperative troponin I values: insult or injury?. <i>Clinical Cardiology</i> , 2000 , 23, 731-3	3.3	17
24	Results of clinical trials of transmyocardial laser revascularization versus medical management for end-stage coronary disease. <i>Photomedicine and Laser Surgery</i> , 2000 , 18, 247-52		2

23	Transmyocardial revascularization with a carbon dioxide laser in patients with end-stage coronary artery disease. <i>New England Journal of Medicine</i> , 1999 , 341, 1021-8	59.2	294
22	Up-regulation of vascular endothelial growth factor mRNA and angiogenesis after transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1999 , 68, 825-9	2.7	74
21	Transmyocardial laser revascularization in the patient with unmanageable unstable angina. <i>Annals of Thoracic Surgery</i> , 1999 , 68, 1203-9	2.7	35
20	Left ventricular functional improvement after transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1998 , 66, 721-5	2.7	41
19	Thoracoscopic transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1998 , 65, 1439-41	2.7	25
18	Thoracoscopic transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1997 , 64, 171-4	2.7	24
17	Clinical studies of TMR with the CO2 laser. <i>Photomedicine and Laser Surgery</i> , 1997 , 15, 281-5		17
16	Transmyocardial laser revascularization: results of a multicenter trial with transmyocardial laser revascularization used as sole therapy for end-stage coronary artery disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1997 , 113, 645-53; discussion 653-4	1.5	267
15	Transmyocardial laser revascularization: operative techniques and clinical results at two years. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1996 , 111, 1047-53	1.5	182
14	Recovery and viability of an acute myocardial infarct after transmyocardial laser revascularization. <i>Journal of the American College of Cardiology</i> , 1995 , 25, 258-63	15.1	141
13	Intraoperative myocardial ischemia detection with laser-induced fluorescence. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1994 , 107, 220-225	1.5	24
12	Monitoring myocardial reperfusion injury with NADH fluorometry. <i>Lasers in Surgery and Medicine</i> , 1992 , 12, 2-6	3.6	19
11	Real-time magnetic resonance imaging guidance in cardiac surgery253-261		
10	Laser-Tissue Interaction16-30		1
9	Scientific and Historic Precedents1-15		
8	The Open Channel Hypothesis for Transmyocardial Revascularization: A Re-Examination120-134		
7	Mechanisms of TMR: Angiogenesis135-148		
6	Myocardial Sinusoids and Non-Compaction: Embryology and Relevance to the Adult Coronary Circulation149-158		

- 5 The Biology of Laser-Tissue Interactions:in vivo Comparisons and Consequences31-47
- 4 Histopathologic Effects of Transmyocardial Laser Revascularization on Myocardium: Assessment of Channel Patency48-64
- 3 Animal Models of Acute and Chronic Coronary Ischemia: Effects of TMR on Perfusion and Left Ventricular Function65-78
- 2 Selection Criteria for Sole Therapy and Adjunctive Therapy in Combination with Coronary Artery Bypass Graft Surgery79-88
- 1 Combination Therapy with Coronary Artery Bypass Grafting104-110