

Keith A Horvath

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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	Mitral-valve repair versus replacement for severe ischemic mitral regurgitation. <i>New England Journal of Medicine</i> , 2014 , 370, 23-32	59.2	593
111	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
110	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
109	Surgical ablation of atrial fibrillation during mitral-valve surgery. <i>New England Journal of Medicine</i> , 2015 , 372, 1399-409	59.2	248
108	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
107	Blood transfusion and infection after cardiac surgery. <i>Annals of Thoracic Surgery</i> , 2013 , 95, 2194-201	2.7	184
106	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
105	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
104	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
103	Management practices and major infections after cardiac surgery. <i>Journal of the American College of Cardiology</i> , 2014 , 64, 372-81	15.1	87
102	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
101	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
100	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
99	The Society of Thoracic Surgeons practice guideline series: transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 2004 , 77, 1494-502	2.7	67
98	Sustained angina relief 5 years after transmyocardial laser revascularization with a CO(2) laser. <i>Circulation</i> , 2001 , 104, 181-4	16.7	57
97	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
96	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

95	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
94	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
93	Direct injection of autologous mesenchymal stromal cells improves myocardial function. <i>Biochemical and Biophysical Research Communications</i> , 2009 , 390, 902-7	3.4	43
92	Left ventricular functional improvement after transmymocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1998 , 66, 721-5	2.7	41
91	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
90	Transmyocardial laser revascularization in the patient with unmanageable unstable angina. <i>Annals of Thoracic Surgery</i> , 1999 , 68, 1203-9	2.7	35
89	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
88	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
87	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
86	Transmyocardial laser revascularization. <i>Journal of Cardiac Surgery</i> , 2008 , 23, 266-76	1.3	26
85	Thoracoscopic transmymocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1998 , 65, 1439-41	2.7	25
84	Thoracoscopic transmymocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1997 , 64, 171-4	2.7	24
83	Intraoperative myocardial ischemia detection with laser-induced fluorescence. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1994 , 107, 220-225	1.5	24
82	Succinate dehydrogenase gene mutations in cardiac paragangliomas. <i>American Journal of Cardiology</i> , 2015 , 115, 1753-9	3	22
81	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
80	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
79	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
78	Functional comparison of transmymocardial revascularization by mechanical and laser means. <i>Annals of Thoracic Surgery</i> , 2001 , 72, 1997-2002	2.7	21

77	Postoperative acute kidney injury following intraoperative blood product transfusions during cardiac surgery. <i>Perfusion (United Kingdom)</i> , 2018 , 33, 62-70	1.9	20
76	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
75	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
74	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
73	Monitoring myocardial reperfusion injury with NADH fluorometry. <i>Lasers in Surgery and Medicine</i> , 1992 , 12, 2-6	3.6	19
72	Expert Consensus: Telehealth Skills for Health Care Professionals. <i>Telemedicine Journal and E-Health</i> , 2021 , 27, 820-824	5.9	19
71	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
70	Clinical studies of TMR with the CO2 laser. <i>Photomedicine and Laser Surgery</i> , 1997 , 15, 281-5		17
69	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
68	Postoperative troponin I values: insult or injury?. <i>Clinical Cardiology</i> , 2000 , 23, 731-3	3.3	17
67	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
66	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
65	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
64	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
63	Real-time magnetic resonance imaging guidance for cardiovascular procedures. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2007 , 19, 330-5	1.7	15
62	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
61	Encouraging experience using multi-transgenic xenografts in a pig-to-baboon cardiac xenotransplantation model. <i>Xenotransplantation</i> , 2017 , 24, e12330	2.8	13
60	CD4+CD25 FoxP3+ regulatory T cells in long-term cardiac xenotransplantation. <i>Xenotransplantation</i> , 2018 , 25, e12379	2.8	13

59	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
58	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
57	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
56	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
55	Intramyocardial Bone Marrow Stem Cells in Patients Undergoing Cardiac Surgical Revascularization. <i>Annals of Thoracic Surgery</i> , 2020 , 109, 1142-1149	2.7	11
54	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
53	Long-term outcomes after transmyocardial revascularization. <i>Annals of Thoracic Surgery</i> , 2012 , 94, 1500-8	2.7	9
52	Mechanisms and results of transmyocardial laser revascularization. <i>Cardiology</i> , 2004 , 101, 37-47	1.6	9
51	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
50	Does laser type impact myocardial function following transmyocardial laser revascularization?. <i>Lasers in Surgery and Medicine</i> , 2010 , 42, 746-51	3.6	8
49	Transmyocardial laser revascularization in the treatment of myocardial ischemia. <i>Journal of Cardiac Surgery</i> , 2000 , 15, 271-7	1.3	7
48	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
47	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
46	Transmyocardial revascularization devices: technology update. <i>Medical Devices: Evidence and Research</i> , 2015 , 8, 11-9	1.5	6
45	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
44	Comprehensive review of evaluation and management of cardiac paragangliomas. <i>Heart</i> , 2020 , 106, 1203-1210	3.1	5
43	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
42	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

41	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
40	Real-time magnetic resonance-guided aortic valve replacement using Engager valve. <i>Annals of Thoracic Surgery</i> , 2014 , 98, 2194-9	2.7	4
39	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
38	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
37	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
36	Clinical results of sole therapy TMR treatment. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2006 , 18, 46-51	1.7	3
35	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
34	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
33	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
32	Novel Direct Annuloplasty Fastener System for Minimally Invasive Mitral Valve Repair. <i>Cardiovascular Engineering and Technology</i> , 2018 , 9, 53-59	2.2	3
31	Surgical management of adult endocardial fibroelastosis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017 , 154, e81-e84	1.5	2
30	Transmyocardial Laser Revascularization. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2004 , 6, 53-59	2.1	2
29	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
28	Consideration of appropriate clinical applications for cardiac xenotransplantation. <i>Clinical Transplantation</i> , 2018 , 32, e13330	3.8	2
27	Minimally invasive cardiac surgery: transapical aortic valve replacement. <i>Minimally Invasive Surgery</i> , 2012 , 2012, 145381	1.3	1
26	Shedding light on denervation and transmyocardial laser revascularization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001 , 122, 647-8	1.5	1
25	Sustained Angina Relief 5 Years After Transmyocardial Laser Revascularization With a CO 2 Laser. <i>Circulation</i> , 2001 , 104,	16.7	1
24	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

23	Laser-Tissue Interaction16-30		1
22	Intra-Abdominal Heterotopic Cardiac Xenotransplantation: Pearls and Pitfalls. <i>Frontiers in Cardiovascular Medicine</i> , 2019 , 6, 95	5.4	o
21	Light and ice cream. <i>Annals of Thoracic Surgery</i> , 2006 , 82, 771; author reply 771-2	2.7	o
20	Transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 2002 , 73, 1355-6	2.7	o
19	Finding the Value in Value-Based Care. <i>Annals of Thoracic Surgery</i> , 2021 , 112, 16-21	2.7	o
18	Cardiac Xenotransplantation: Progress in Preclinical Models and Prospects for Clinical Translation.. <i>Transplant International</i> , 2022 , 35, 10171	3	o
17	Shedding light on denervation and transmyocardial laser revascularization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003 , 125, S74-S75	1.5	
16	Transmyocardial Laser Revascularization 2020 , 261-267		
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14	Transmyocardial Laser Revascularization. <i>Fundamental and Clinical Cardiology</i> , 2006 , 383-400		
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