

# Keith A Horvath

## List of Publications by Year in descending order

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Version: 2024-02-01

103  
papers

5,146  
citations

147566

31  
h-index

88477

70  
g-index

119  
all docs

119  
docs citations

119  
times ranked

4267  
citing authors

#	ARTICLE	IF	CITATIONS
1	Mitral-Valve Repair versus Replacement for Severe Ischemic Mitral Regurgitation. New England Journal of Medicine, 2014, 370, 23-32.	13.9	792
2	Surgical Ablation of Atrial Fibrillation during Mitral-Valve Surgery. New England Journal of Medicine, 2015, 372, 1399-1409.	13.9	360
3	Transmyocardial Revascularization with a Carbon Dioxide Laser in Patients with End-Stage Coronary Artery Disease. New England Journal of Medicine, 1999, 341, 1021-1028.	13.9	356
4	Chimeric 2C10R4 anti-CD40 antibody therapy is critical for long-term survival of GTKO.hCD46.hTBM pig-to-primate cardiac xenograft. Nature Communications, 2016, 7, 11138.	5.8	351
5	Transmyocardial laser revascularization: Results of a multicenter trial with transmyocardial laser revascularization used as sole therapy for end-stage coronary artery disease. Journal of Thoracic and Cardiovascular Surgery, 1997, 113, 645-654.	0.4	300
6	Blood Transfusion and Infection After Cardiac Surgery. Annals of Thoracic Surgery, 2013, 95, 2194-2201.	0.7	251
7	Transmyocardial laser revascularization: Operative techniques and clinical results at two years. Journal of Thoracic and Cardiovascular Surgery, 1996, 111, 1047-1053.	0.4	212
8	Recovery and viability of an acute myocardial infarct after transmyocardial laser revascularization. Journal of the American College of Cardiology, 1995, 25, 258-263.	1.2	159
9	Management Practices and Major Infections After Cardiac Surgery. Journal of the American College of Cardiology, 2014, 64, 372-381.	1.2	128
10	Real-time interactive MRI-guided cardiac surgery: Aortic valve replacement using a direct apical approach. Magnetic Resonance in Medicine, 2006, 56, 958-964.	1.9	111
11	Genetically engineered pigs and target-specific immunomodulation provide significant graft survival and hope for clinical cardiac xenotransplantation. Journal of Thoracic and Cardiovascular Surgery, 2014, 148, 1106-1114.	0.4	111
12	Emboli capture using the Embol-X intraaortic filter in cardiac surgery: a multicentered randomized trial of 1,289 patients. Annals of Thoracic Surgery, 2003, 76, 508-515.	0.7	91
13	Up-regulation of vascular endothelial growth factor mRNA and angiogenesis after transmyocardial laser revascularization. Annals of Thoracic Surgery, 1999, 68, 825-829.	0.7	86
14	The Society of Thoracic Surgeons practice guideline series: transmyocardial laser revascularization. Annals of Thoracic Surgery, 2004, 77, 1494-1502.	0.7	82
15	Early graft failure of GalTKO pig organs in baboons is reduced by expression of a human complement pathway-regulatory protein. Xenotransplantation, 2015, 22, 310-316.	1.6	79
16	Pneumonia after cardiac surgery: Experience of the National Institutes of Health/Canadian Institutes of Health Research Cardiothoracic Surgical Trials Network. Journal of Thoracic and Cardiovascular Surgery, 2017, 153, 1384-1391.e3.	0.4	79
17	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. Xenotransplantation, 2014, 21, 35-45.	1.6	77
18	Sustained Angina Relief 5 Years After Transmyocardial Laser Revascularization With a CO <sub>2</sub> Laser. Circulation, 2001, 104, I-81-I-84.	1.6	75

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19	Expert Consensus: Telehealth Skills for Health Care Professionals. <i>Telemedicine Journal and E-Health</i> , 2021, 27, 820-824.	1.6	65
20	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, 481-487.	0.7	54
21	Diabetes and the Association of Postoperative Hyperglycemia With Clinical and Economic Outcomes in Cardiac Surgery. <i>Diabetes Care</i> , 2016, 39, 408-417.	4.3	50
22	Left ventricular functional improvement after transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 1998, 66, 721-725.	0.7	46
23	Optimal surgical management of severe ischemic mitral regurgitation: To repair or to replace?. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2012, 143, 1396-1403.	0.4	45
24	Direct injection of autologous mesenchymal stromal cells improves myocardial function. <i>Biochemical and Biophysical Research Communications</i> , 2009, 390, 902-907.	1.0	44
25	Cardiac xenografts show reduced survival in the absence of transgenic human thrombomodulin expression in donor pigs. <i>Xenotransplantation</i> , 2019, 26, e12465.	1.6	43
26	Transmyocardial laser revascularization in the patient with unmanageable unstable angina. <i>Annals of Thoracic Surgery</i> , 1999, 68, 1203-1209.	0.7	41
27	Characterization and expansion of baboon CD4 <sup>+</sup> CD25 <sup>+</sup> Treg cells for potential use in a non-human primate xenotransplantation model. <i>Xenotransplantation</i> , 2007, 14, 298-308.	1.6	39
28	Postoperative acute kidney injury following intraoperative blood product transfusions during cardiac surgery. <i>Perfusion (United Kingdom)</i> , 2018, 33, 62-70.	0.5	36
29	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.	0.7	35
30	Thoracoscopic Transmyocardial Laser Revascularization. <i>Annals of Thoracic Surgery</i> , 1998, 65, 1439-1441.	0.7	34
31	Midterm results of transapical aortic valve replacement via real-time magnetic resonance imaging guidance. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2010, 139, 424-430.	0.4	33
32	Pacemaker Implantation After Mitral Valve Surgery With Atrial Fibrillation Ablation. <i>Journal of the American College of Cardiology</i> , 2019, 73, 2427-2435.	1.2	33
33	Bilateral 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.	0.4	31
34	Succinate Dehydrogenase Gene Mutations in Cardiac Paragangliomas. <i>American Journal of Cardiology</i> , 2015, 115, 1753-1759.	0.7	30
35	Functional comparison of transmyocardial revascularization by mechanical and laser means. <i>Annals of Thoracic Surgery</i> , 2001, 72, 1997-2002.	0.7	29
36	Transmyocardial Laser Revascularization. <i>Journal of Cardiac Surgery</i> , 2008, 23, 266-276.	0.3	29

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37	Intraoperative myocardial ischemia detection with laser-induced fluorescence. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 1994, 107, 220-225.	0.4	28
38	Thoracoscopic Transmyocardial Laser Revascularization. <i>Annals of Thoracic Surgery</i> , 1997, 64, 171-174.	0.7	28
39	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, 1131-1137.	0.4	28
40	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.	0.4	26
41	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, 822-828.	0.6	25
42	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.	0.3	25
43	Monitoring myocardial reperfusion injury with NADH fluorometry. <i>Lasers in Surgery and Medicine</i> , 1992, 12, 2-6.	1.1	23
44	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.	1.2	23
45	A Multidisciplinary Protocol-Driven Approach to Improve Extubation Times After Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2018, 105, 1684-1690.	0.7	22
46	Comprehensive review of evaluation and management of cardiac paragangliomas. <i>Heart</i> , 2020, 106, 1202-1210.	1.2	22
47	Marrow Stromal Cells Differentiate Into Vasculature After Allogeneic Transplantation Into Ischemic Myocardium. <i>Annals of Thoracic Surgery</i> , 2011, 91, 1206-1212.	0.7	21
48	Ex vivo expanded baboon CD4 <sup>+</sup> CD25 <sup>hi</sup> Treg cells suppress baboon anti- $\alpha$ pig T and B cell immune response. <i>Xenotransplantation</i> , 2012, 19, 102-111.	1.6	21
49	Encouraging experience using multi-transgenic xenografts in a pig-to-baboon cardiac xenotransplantation model. <i>Xenotransplantation</i> , 2017, 24, e12330.	1.6	21
50	A multi-institutional cohort study confirming the risks of <i>Clostridium difficile</i> infection associated with prolonged antibiotic prophylaxis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2018, 155, 670-678.e1.	0.4	21
51	Progression of Tricuspid Regurgitation After Surgery for Ischemic Mitral Regurgitation. <i>Journal of the American College of Cardiology</i> , 2021, 77, 713-724.	1.2	21
52	Results of prospective randomized controlled trials of transmyocardial laser revascularization. <i>Heart Surgery Forum</i> , 2002, 5, 33-9; discussion 39-40.	0.2	20
53	Clinical Studies of TMR with the CO <sub>2</sub> Laser. <i>Photomedicine and Laser Surgery</i> , 1997, 15, 281-285.	1.1	19
54	Postoperative troponin I values: Insult or injury?. <i>Clinical Cardiology</i> , 2000, 23, 731-733.	0.7	18

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55	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, 1071-1077.	0.4	18
56	Impact of Unstable Angina on Outcomes of Transmyocardial Laser Revascularization Combined With Coronary Artery Bypass Grafting. <i>Annals of Thoracic Surgery</i> , 2005, 80, 2082-2085.	0.7	18
57	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.	0.4	18
58	<scp>CD</scp>4+<scp>CD</scp>25<sup>Hi</sup>FoxP3+ regulatory T cells in long-term cardiac xenotransplantation. <i>Xenotransplantation</i> , 2018, 25, e12379.	1.6	17
59	Real-Time Magnetic Resonance Imaging Guidance for Cardiovascular Procedures. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2007, 19, 330-335.	0.4	16
60	Intramyocardial Bone Marrow Stem Cells in Patients Undergoing Cardiac Surgical Revascularization. <i>Annals of Thoracic Surgery</i> , 2020, 109, 1142-1149.	0.7	15
61	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, 117-128.	0.3	12
62	Mechanisms and Results of Transmyocardial Laser Revascularization. <i>Cardiology</i> , 2004, 101, 37-47.	0.6	11
63	Induced Pluripotent Stem Cell Transplantation in the Treatment of Porcine Chronic Myocardial Ischemia. <i>Annals of Thoracic Surgery</i> , 2014, 98, 2130-2137.	0.7	11
64	Robot-assisted real-time magnetic resonance image-guided transcatheter aortic valve replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 151, 1407-1412.	0.4	11
65	Long-Term Outcomes After Transmyocardial Revascularization. <i>Annals of Thoracic Surgery</i> , 2012, 94, 1500-1508.	0.7	10
66	Real-time magnetic resonance image-guided transcatheter aortic valve replacement. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 151, 1269-1277.	0.4	10
67	Cost-Effectiveness of Mitral Valve Repair Versus Replacement for Severe Ischemic Mitral Regurgitation. <i>Circulation: Cardiovascular Quality and Outcomes</i> , 2018, 11, .	0.9	10
68	Cardiac Xenotransplantation: Progress in Preclinical Models and Prospects for Clinical Translation. <i>Transplant International</i> , 2022, 35, 10171.	0.8	10
69	Does laser type impact myocardial function following transmyocardial laser revascularization?. <i>Lasers in Surgery and Medicine</i> , 2010, 42, 906-911.	1.1	9
70	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, 1905-1918.	1.7	9
71	Routine Use of Topical Bacitracin to Prevent Sternal Wound Infections After Cardiac Surgery. <i>Annals of Thoracic Surgery</i> , 2017, 104, 1496-1500.	0.7	8
72	What is the Optimal Channel Density for Transmyocardial Laser Revascularization?. <i>Annals of Thoracic Surgery</i> , 2004, 78, 1326-1331.	0.7	7

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73	Transmyocardial Laser Revascularization in the Treatment of Myocardial Ischemia. <i>Journal of Cardiac Surgery</i> , 2010, 15, 271-277.	0.3	7
74	Surgical management of adult endocardial fibroelastosis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2017, 154, e81-e84.	0.4	7
75	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.	0.4	7
76	Self-Expanding Stent and Delivery System for Aortic Valve Replacement. <i>Journal of Medical Devices, Transactions of the ASME</i> , 2012, 6, 410061-410069.	0.4	6
77	Transmyocardial revascularization devices: technology update. <i>Medical Devices: Evidence and Research</i> , 2014, 8, 11.	0.4	6
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, 1067-1072.	0.4	6
79	Risk for non-home discharge following surgery for ischemic mitral valve disease. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2020, 162, 1769-1778.e7.	0.4	6
80	Cardiothoracic Surgical Trials Network: Evidence-based surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2016, 151, 28-29.	0.4	5
81	Transmyocardial laser revascularization. <i>Current Treatment Options in Cardiovascular Medicine</i> , 2004, 6, 53-59.	0.4	4
82	Clinical Results of Sole Therapy TMR Treatment. <i>Seminars in Thoracic and Cardiovascular Surgery</i> , 2006, 18, 46-51.	0.4	4
83	Real-Time Magnetic Resonance-â€“Guided Aortic Valve Replacement Using Engager Valve. <i>Annals of Thoracic Surgery</i> , 2014, 98, 2194-2199.	0.7	4
84	Consideration of appropriate clinical applications for cardiac xenotransplantation. <i>Clinical Transplantation</i> , 2018, 32, e13330.	0.8	4
85	The Incidence of Emboli during Cardiac Surgery: A Histopathologic Analysis of 2297 Patients. <i>Heart Surgery Forum</i> , 2005, 8, E161-E166.	0.2	4
86	Can Cardiothoracic Surgeons Succeed in Value-Based Care?. <i>Annals of Thoracic Surgery</i> , 2022, , .	0.7	4
87	Results of Clinical Trials of Transmyocardial Laser Revascularization versus Medical Management for End-Stage Coronary Disease. <i>Photomedicine and Laser Surgery</i> , 2000, 18, 247-252.	1.1	3
88	Shedding light on denervation and transmyocardial laser revascularization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2001, 122, 647-648.	0.4	3
89	Transmyocardial laser revascularization. <i>Annals of Thoracic Surgery</i> , 2002, 73, 1355-1356.	0.7	3
90	Novel Direct Annuloplasty Fastener System for Minimally Invasive Mitral Valve Repair. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 53-59.	0.7	3

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91	Intra-Abdominal Heterotopic Cardiac Xenotransplantation: Pearls and Pitfalls. <i>Frontiers in Cardiovascular Medicine</i> , 2019, 6, 95.	1.1	3
92	Minimally Invasive Cardiac Surgery: Transapical Aortic Valve Replacement. <i>Minimally Invasive Surgery</i> , 2012, 2012, 1-10.	0.1	2
93	Finding the Value in Value-Based Care. <i>Annals of Thoracic Surgery</i> , 2021, 112, 16-21.	0.7	2
94	Light and Ice Cream. <i>Annals of Thoracic Surgery</i> , 2006, 82, 771.	0.7	1
95	Sustained Angina Relief 5 Years After Transmyocardial Laser Revascularization With a CO <sub>2</sub> Laser. <i>Circulation</i> , 2001, 104, .	1.6	1
96	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.	0.4	1
97	Shedding light on denervation and transmyocardial laser revascularization. <i>Journal of Thoracic and Cardiovascular Surgery</i> , 2003, 125, S74-S75.	0.4	0
98	Neither Grail nor Failâ€™ In Defense of Myocardial Cell Therapy. <i>Annals of Thoracic Surgery</i> , 2020, 110, 2104-2105.	0.7	0
99	Preparing for the Future: Funding for Graduate Medical Education in Cardiothoracic Surgery. <i>Annals of Thoracic Surgery</i> , 2021, 112, 1736-1740.	0.7	0
100	Transmyocardial Laser Revascularization. <i>Fundamental and Clinical Cardiology</i> , 2006, , 383-400.	0.0	0
101	The Impact of Various Wavelength Lasers on Myocardial Function following Transmyocardial Laser Revascularization. , 2015, , 287-303.		0
102	Transmyocardial Laser Revascularization. , 2020, , 261-267.		0
103	Transmyocardial Laser Revascularization. , 2005, , 329-348.		0