

# Bob Kiaii

## List of Publications by Citations

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96  
papers

1,215  
citations

17  
h-index

30  
g-index

100  
ext. papers

1,498  
ext. citations

2.4  
avg, IF

4.1  
L-index

#	Paper	IF	Citations
96	A prospective randomized trial of endoscopic versus conventional harvesting of the saphenous vein in coronary artery bypass surgery. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2002</b> , 123, 204-12	1.5	120
95	Simultaneous integrated coronary artery revascularization with long-term angiographic follow-up. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2008</b> , 136, 702-8	1.5	101
94	Closed-chest coronary artery bypass grafting on the beating heart with the use of a computer-enhanced surgical robotic system. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2000</b> , 120, 807-9	1.5	82
93	Single-stage hybrid coronary revascularization with long-term follow-up. <i>European Journal of Cardio-thoracic Surgery</i> , <b>2014</b> , 45, 438-42; discussion 442-3	3	53
92	Long-term angiographic follow-up of robotic-assisted coronary artery revascularization. <i>Annals of Thoracic Surgery</i> , <b>2012</b> , 93, 1426-31	2.7	48
91	Prospective evaluation of consultant surgeon sleep deprivation and outcomes in more than 4000 consecutive cardiac surgical procedures. <i>Archives of Surgery</i> , <b>2011</b> , 146, 1080-5		39
90	Concurrent robotic hybrid revascularization using an enhanced operative suite. <i>Chest</i> , <b>2005</b> , 128, 4046-8	5.3	37
89	Unilateral postoperative pulmonary edema after minimally invasive cardiac surgical procedures: a case-control study. <i>Annals of Thoracic Surgery</i> , <b>2015</b> , 99, 115-22	2.7	36
88	How to build a cath-lab operating room. <i>Heart Surgery Forum</i> , <b>2007</b> , 10, E344-8	0.7	34
87	Transcatheter Aortic Valve Implantation With or Without Preimplantation Balloon Aortic Valvuloplasty: A Systematic Review and Meta-Analysis. <i>Journal of the American Heart Association</i> , <b>2016</b> , 5,	6	34
86	Prospective angiographic comparison of direct, endoscopic, and telesurgical approaches to harvesting the internal thoracic artery. <i>Annals of Thoracic Surgery</i> , <b>2006</b> , 82, 624-8	2.7	33
85	Minimal invasive endoscopic resection of a giant left atrial appendage aneurysm. <i>Annals of Thoracic Surgery</i> , <b>2004</b> , 77, 1437-8	2.7	31
84	Evaluation of robotic cardiac surgery simulation training: A randomized controlled trial. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2016</b> , 151, 1498-1505.e2	1.5	29
83	Early Clinical Outcomes of Hybrid Arch Frozen Elephant Trunk Repair With the Thoraflex Hybrid Graft. <i>Annals of Thoracic Surgery</i> , <b>2019</b> , 107, 47-53	2.7	25
82	Hybrid Coronary Revascularization Versus On-Pump Coronary Artery Bypass Grafting. <i>Annals of Thoracic Surgery</i> , <b>2018</b> , 105, 1330-1335	2.7	19
81	Clinical outcomes of minimally invasive endoscopic and conventional sternotomy approaches for atrial septal defect repair. <i>Canadian Journal of Surgery</i> , <b>2014</b> , 57, E75-81	2	19
80	Comparison of isoflurane and sevoflurane in cardiac surgery: a randomized non-inferiority comparative effectiveness trial. <i>Canadian Journal of Anaesthesia</i> , <b>2016</b> , 63, 1128-39	3	18

79	Computer-enhanced telemanipulation in mitral valve repair: preliminary experience in Canada with the da Vinci robotic system. <i>Canadian Journal of Surgery</i> , <b>2006</b> , 49, 193-6	2	16
78	The early inflammatory response in a mini-cardiopulmonary bypass system: a prospective randomized study. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2012</b> , 7, 23-32	1.5	15
77	Augmented reality image guidance improves navigation for beating heart mitral valve repair. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2012</b> , 7, 274-81	1.5	15
76	The role of surgical simulation and the learning curve in robot-assisted surgery. <i>Journal of Robotic Surgery</i> , <b>2008</b> , 2, 11-5	2.9	15
75	Robotic Surgery, the First 100 Cases: Where Do We Go from Here?. <i>Heart Surgery Forum</i> , <b>2004</b> , 7, 1-4	0.7	15
74	Robotic-assisted coronary artery bypass surgery: an 18-year single-centre experience. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2018</b> , 14, e1891	2.9	14
73	Automated coring and apical connector insertion device for aortic valve bypass surgery. <i>Annals of Thoracic Surgery</i> , <b>2012</b> , 93, 290-3	2.7	13
72	First North American experience with the transfemoral ACURATE-neo self-expanding transcatheter aortic bioprosthesis. <i>Catheterization and Cardiovascular Interventions</i> , <b>2017</b> , 90, 130-138	2.7	13
71	Augmented Reality System for Ultrasound Guidance of Transcatheter Aortic Valve Implantation. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2016</b> , 11, 31-9; discussion 39	1.5	13
70	3-Dimensional-Printed Model for Planning Transcatheter Mitral Valve Replacement. <i>JACC: Cardiovascular Interventions</i> , <b>2018</b> , 11, 812-813	5	12
69	Preoperative evaluation of patient anatomy to increase success of robotics-assisted bypass surgery. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2010</b> , 5, 335-40	1.5	12
68	Higher-risk mitral valve operations after previous sternotomy: endoscopic, minimally invasive approach improves patient outcomes. <i>Canadian Journal of Surgery</i> , <b>2016</b> , 59, 399-406	2	12
67	Single-Stage Management of Dynamic Malperfusion Using a Novel Arch Remodeling Hybrid Graft. <i>Annals of Thoracic Surgery</i> , <b>2019</b> , 108, 1768-1775	2.7	12
66	Hybrid Coronary Revascularization Versus Off-Pump Coronary Artery Bypass Grafting: Comparative Effectiveness Analysis With Long-Term Follow-up. <i>Journal of the American Heart Association</i> , <b>2019</b> , 8, e014204	6	12
65	Transcatheter Mitral Valve Replacement in Patients With Previous Aortic Valve Replacement. <i>Circulation: Cardiovascular Interventions</i> , <b>2018</b> , 11, e006412	6	12
64	Early clinical outcomes of a novel self-expanding transapical transcatheter aortic valve bioprosthesis. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2017</b> , 153, 810-818	1.5	11
63	Minimally invasive mitral repair surgery: why does controversy still persist?. <i>Expert Review of Cardiovascular Therapy</i> , <b>2017</b> , 15, 15-24	2.5	11
62	Long-term patency of endoscopically harvested radial arteries: from a randomized controlled trial. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2015</b> , 10, 77-84	1.5	11

61	Complete 2-Year Results Confirm Bayesian Analysis of the SURTAVI Trial. <i>JACC: Cardiovascular Interventions</i> , <b>2020</b> , 13, 323-331	5	11
60	Anatomy-based eligibility measure for robotic-assisted bypass surgery. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2014</b> , 9, 349-53; discussion 353	1.5	11
59	Hybrid Coronary Artery Revascularization: A Review and Current Evidence. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2019</b> , 14, 394-404	1.5	10
58	A semi-infinite programming approach to preoperative planning of robotic cardiac surgery under geometric uncertainty. <i>IEEE Journal of Biomedical and Health Informatics</i> , <b>2013</b> , 17, 172-82	7.2	10
57	Surgical, anesthetic, perfusion-related advances in minimal access surgery. <i>Seminars in Cardiothoracic and Vascular Anesthesia</i> , <b>2007</b> , 11, 282-7	1.4	10
56	The International Society for Minimally Invasive Cardiothoracic Surgery Expert Consensus Statement on Transcatheter and Surgical Aortic Valve Replacement in Low- and Intermediate-Risk Patients: A Meta-Analysis of Randomized and Propensity-Matched Studies. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2021</b> , 16, 3-16	1.5	10
55	Frailty in patients undergoing transcatheter aortic valve implantation: a protocol for a systematic review. <i>BMJ Open</i> , <b>2019</b> , 9, e024163	3	9
54	Dissected Aorta Repair Through Stent Implantation trial: Canadian results. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2019</b> , 157, 1763-1771	1.5	9
53	Midterm Outcomes of the Dissected Aorta Repair Through Stent Implantation Trial. <i>Annals of Thoracic Surgery</i> , <b>2021</b> , 111, 463-470	2.7	9
52	Why the categorization of indexed effective orifice area is not justified for the classification of prosthesis-patient mismatch. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2020</b> ,	1.5	8
51	The role of visual and direct force feedback in robotics-assisted mitral valve annuloplasty. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2017</b> , 13, e1787	2.9	7
50	Dynamics of the Ghrelin/Growth Hormone Secretagogue Receptor System in the Human Heart Before and After Cardiac Transplantation. <i>Journal of the Endocrine Society</i> , <b>2019</b> , 3, 748-762	0.4	6
49	Association of comorbid burden with clinical outcomes after transcatheter aortic valve implantation. <i>Heart</i> , <b>2018</b> , 104, 2058-2066	5.1	6
48	The critical role of imaging navigation and guidance in transcatheter aortic valve implantation. <i>Journal of Thoracic and Cardiovascular Surgery</i> , <b>2012</b> , 143, 1241-3	1.5	6
47	Preoperative planning of robotics-assisted minimally invasive coronary artery bypass grafting <b>2010</b> ,		6
46	Preoperative Evaluation of Patient Anatomy to Increase Success of Robotics-Assisted Bypass Surgery. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2010</b> , 5, 335-340	1.5	6
45	Early Clinical Experiences of Robotic Assisted Aortic Valve Replacement for Aortic Valve Stenosis with Sutureless Aortic Valve. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2020</b> , 15, 88-92	1.5	6
44	Perioperative dexmedetomidine and 5-year survival in patients undergoing cardiac surgery. <i>British Journal of Anaesthesia</i> , <b>2021</b> , 127, 215-223	5.4	6

43	Transcatheter ACURATE-TA Aortic Valve Implantation in a Patient With a Previous Mechanical Mitral Valve. <i>Annals of Thoracic Surgery</i> , <b>2015</b> , 100, e115-7	2.7	5
42	Clinical outcomes of a combined transcatheter and minimally invasive atrial septal defect repair program using a Heart Team Approach. <i>Journal of Cardiothoracic Surgery</i> , <b>2018</b> , 13, 11	1.6	5
41	Validation of a Novel Virtual Reality Training Curriculum for Robotic Cardiac Surgery a Randomized Trial. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2015</b> , 10, 383-388	1.5	5
40	Minimally invasive robotically assisted repair of atrial perforation from a pacemaker lead. <i>International Journal of Medical Robotics and Computer Assisted Surgery</i> , <b>2012</b> , 8, 243-6	2.9	5
39	First North American Experience With the Engager Self-Expanding Transcatheter Aortic Valve: Insights From the London Health Sciences Centre Heart Team. <i>Annals of Thoracic Surgery</i> , <b>2016</b> , 102, e167-71	2.7	4
38	Comparison of MAX-ACT and K-ACT values when using bivalirudin anticoagulation during minimally invasive hybrid off-pump coronary artery bypass graft surgery. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2011</b> , 25, 415-8	2.1	4
37	Regional Differences in the Ghrelin-Growth Hormone Secretagogue Receptor Signalling System in Human Heart Disease. <i>CJC Open</i> , <b>2021</b> , 3, 182-194	2	4
36	Cardiac-Referenced Leukocyte Telomere Length and Outcomes After Cardiovascular Surgery. <i>JACC Basic To Translational Science</i> , <b>2018</b> , 3, 591-600	8.7	4
35	Symetis valve implantation in failing freestyle with close proximity between coronary Ostia and annulus. <i>Annals of Thoracic Surgery</i> , <b>2015</b> , 99, e87-8	2.7	3
34	A framework for preoperative planning of robotics-assisted minimally invasive cardiac surgery (RAMICS) under geometric uncertainty <b>2011</b> ,		3
33	Anatomy-Based Eligibility Measure for Robotic-Assisted Bypass Surgery. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2014</b> , 9, 349-353	1.5	3
32	Comparison of outcomes of root replacement procedures and supracoronary techniques for surgical repair of acute aortic dissection. <i>Canadian Journal of Surgery</i> , <b>2017</b> , 60, 198-204	2	3
31	Robotic-assisted left atrial ligation for stroke reduction in chronic atrial fibrillation: a case report. <i>Heart Surgery Forum</i> , <b>2006</b> , 9, E533-5; discussion E535	0.7	3
30	Measurement and prognosis of frail patients undergoing transcatheter aortic valve implantation: a systematic review and meta-analysis. <i>BMJ Open</i> , <b>2021</b> , 11, e040459	3	3
29	Sepsis-induced heparin resistance during extracorporeal membrane oxygenation. <i>Cmaj</i> , <b>2019</b> , 191, E283-E285	3.385	2
28	Cardiac surgeons' concerns, perceptions, and responses during the COVID-19 pandemic. <i>Journal of Cardiac Surgery</i> , <b>2021</b> , 36, 3040-3051	1.3	2
27	Transcaval Transcatheter Aortic Valve Replacement With the ACURATE-neo Aortic Bioprosthesis: First North American Experience. <i>JACC: Cardiovascular Interventions</i> , <b>2016</b> , 9, e199-e201	5	2
26	Update on revascularization in patients with heart failure and coronary artery disease. <i>Current Opinion in Cardiology</i> , <b>2018</b> , 33, 232-236	2.1	2

25	Five-Year Outcomes After Hybrid Coronary Revascularization: A Single Center Experience. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2021</b> , 16, 456-462	1.5	2
24	The role of robotic technology in minimally invasive surgery for mitral valve disease. <i>Expert Review of Medical Devices</i> , <b>2021</b> , 18, 955-970	3.5	2
23	Rescue Balloon Aortic Valvuloplasty After Sutureless Aortic Valve Replacement for Severe Paravalvular Leak. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2019</b> , 14, 476-479	1.5	1
22	Aortic Valve Stenosis and Left Main Coronary Disease: Hybrid Approach. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2015</b> , 10, 435-7	1.5	1
21	Long-term Patency of Endoscopically Harvested Radial Arteries: From a Randomized Controlled Trial. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2015</b> , 10, 77-84	1.5	1
20	Percutaneous superior vena cava drainage during minimally invasive mitral valve surgery: a randomized, crossover study. <i>Journal of Cardiothoracic and Vascular Anesthesia</i> , <b>2015</b> , 29, 101-6	2.1	1
19	Augmented Reality Image Guidance Improves Navigation for Beating Heart Mitral Valve Repair. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2012</b> , 7, 274-281	1.5	1
18	Eligibility for Minimally Invasive Coronary Artery Bypass. <i>Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery</i> , <b>2017</b> , 12, 121-126	1.5	1
17	Development of a porcine model of emergency re sternotomy at a low-volume cardiac surgery centre. <i>Interactive Cardiovascular and Thoracic Surgery</i> , <b>2020</b> , 31, 803-805	1.8	1
16	Boot-Shaped Heart After Robotic Coronary Assist Bypass Surgery. <i>JACC: Cardiovascular Imaging</i> , <b>2020</b> , 13, 2430-2434	8.4	1
15	Clinical impact of disinvestment in hydroxyethyl starch for patients undergoing coronary artery bypass surgery: a retrospective observational study. <i>Canadian Journal of Anaesthesia</i> , <b>2019</b> , 66, 25-35	3	1
14	Coronary sinus to left atrium fistula on computed tomography angiography: Differentiation from unroofed coronary sinus with literature review. <i>Journal of Cardiovascular Computed Tomography</i> , <b>2021</b> , 15, e15-e17	2.8	1
13	Is There a Role for Diagonal Coronary Artery Stenting in Patients Undergoing Robotic Coronary Artery Bypass Graft Surgery?. <i>Journal of Clinical Medicine Research</i> , <b>2018</b> , 10, 626-629	2.9	0
12	Hiatal hernia after robotic-assisted coronary artery bypass graft surgery. <i>Journal of Thoracic Disease</i> , <b>2021</b> , 13, 575-581	2.6	0
11	Functional Status After Transcatheter and Surgical Aortic Valve Replacement: 2-Year Analysis From the SURTAVI Trial. <i>JACC: Cardiovascular Interventions</i> , <b>2022</b> , 15, 728-738	5	0
10	Effect of lipid-lowering medications in patients with coronary artery bypass grafting surgery outcomes. <i>BMC Anesthesiology</i> , <b>2022</b> , 22, 122	2.4	0
9	Hybrid Coronary Revascularization <b>2019</b> , 83-102		
8	Peripheral Thrombosis and Necrosis after Minimally Invasive Redo Mitral Valve Replacement due to Unknown Etiology: Difficult Diagnosis of Heparin Induced Thrombocytopenia. <i>Case Reports in Vascular Medicine</i> , <b>2015</b> , 2015, 383104	0.5	

7 Robotic Coronary Artery Revascularization **2021**, 449

6 Robotic Cardiac Valvular Surgery **2021**, 485-489

5 ROBOT-ASSISTED CORONARY AND MITRAL VALVE SURGERY **2018**, 57-80

4 Aortic Valve Stenosis and Left Main Coronary Disease: Hybrid Approach. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2015**, 10, 435-437 1.5

3 Development of a 4-dimensional model of the human heart using cardiac CT data. *FASEB Journal*, **2009**, 23, 298.5 0.9

2 Successful Intraoperative Reversal of Heparin with Factor VII in a Patient with Protamine Reaction. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2011**, 6, 48-50 1.5

1 Augmented Reality System for Ultrasound Guidance of Transcatheter Aortic Valve Implantation. *Innovations: Technology and Techniques in Cardiothoracic and Vascular Surgery*, **2016**, 11, 31-39 1.5