

# Kiyotaka Iwasaki

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4308272/publications.pdf>

Version: 2024-02-01

80  
papers

417  
citations

1040056

9  
h-index

839539

18  
g-index

83  
all docs

83  
docs citations

83  
times ranked

586  
citing authors

#	ARTICLE	IF	CITATIONS
1	Comparative performance analysis of interventional devices for the treatment of ischemic disease in below-the-knee lesions: a systematic review and meta-analysis. <i>Cardiovascular Intervention and Therapeutics</i> , 2022, 37, 145-157.	2.3	11
2	Characteristics of anatomical difficulty for cryoballoon ablation: insights from CT. <i>Open Heart</i> , 2022, 9, e001724.	2.3	4
3	Latest outcomes of transcatheter left atrial appendage closure devices and direct oral anticoagulant therapy in patients with atrial fibrillation over the past 5 years: a systematic review and meta-analysis. <i>Cardiovascular Intervention and Therapeutics</i> , 2022, 37, 725-738.	2.3	5
4	Perfusable vascular tree like construction in 3D cell-dense tissues using artificial vascular bed. <i>Microvascular Research</i> , 2022, 141, 104321.	2.5	5
5	Biodesign program introduction in Japan: promotion of entrepreneurship and viewpoints of education on medical technology innovation. <i>Journal of Artificial Organs</i> , 2022, , 1.	0.9	1
6	JCS/JSCVS/JATS/JSVS 2021 Guideline on Implantable Left Ventricular Assist Device for Patients With Advanced Heart Failure. <i>Circulation Journal</i> , 2022, 86, 1024-1058.	1.6	9
7	Time-series biological responses toward decellularized bovine tendon graft and autograft for 52 consecutive weeks after rat anterior cruciate ligament reconstruction. <i>Scientific Reports</i> , 2022, 12, 6751.	3.3	3
8	Comparison of supportive regulatory measures for pediatric medical device development in Japan and the United States. <i>Journal of Artificial Organs</i> , 2021, 24, 90-101.	0.9	5
9	Aortic root geometry following valve-sparing root replacement with reimplantation or remodeling: experimental investigation under static continuous pressure. <i>Journal of Artificial Organs</i> , 2021, 24, 245-253.	0.9	3
10	Bicuspid aortic valve morphology and aortic valvular outflow jets: an experimental analysis using an MRI-compatible pulsatile flow circulation system. <i>Scientific Reports</i> , 2021, 11, 2066.	3.3	11
11	The efficacy of sinus plication in aortic valvuloplasty for bicuspid aortic valve: experiments in a pulsatile flow simulation model. <i>European Journal of Cardio-thoracic Surgery</i> , 2021, 60, 859-864.	1.4	3
12	Finite element analysis of cutting balloon expansion in a calcified artery model of circular angle 180°: Effects of balloon-to-diameter ratio and number of blades facing calcification on potential calcification fracturing and perforation reduction. <i>PLoS ONE</i> , 2021, 16, e0251404.	2.5	2
13	The stability of flow velocity and intracoronary resistance in the intracoronary electrocardiogram-triggered pressure ratio. <i>Scientific Reports</i> , 2021, 11, 13824.	3.3	4
14	Finite Element Analysis of the Cutting Balloon With an Adequate Balloon-to-Artery Ratio for Fracturing Calcification While Preventing Perforation. <i>Circulation Reports</i> , 2021, 3, 1-8.	1.0	4
15	Measuring the Contractile Force of Multilayered Human Cardiac Cell Sheets. <i>Tissue Engineering - Part C: Methods</i> , 2020, 26, 485-492.	2.1	6
16	Effect of QTU prolongation on hyperemic instantaneous wave-free ratio value: a prospective single-center study. <i>Heart and Vessels</i> , 2020, 35, 909-917.	1.2	3
17	Diagnostic Performance and Pressure Stability of a Novel Myocardial Ischemic Diagnostic Index • The Intracoronary-Electrocardiogram-Triggered Distal Pressure/Aortic Pressure Ratio •. <i>Circulation Reports</i> , 2020, 2, 665-673.	1.0	2
18	A Comprehensive Analysis of Postmarket Surveillance Study Orders: Device Characteristics, Study Statuses, Outcomes, and Potential Contributions. <i>Therapeutic Innovation and Regulatory Science</i> , 2020, 54, 953-963.	1.6	4

#	ARTICLE	IF	CITATIONS
19	Deployment of stent graft in an excessively higher position above the renal artery induces a flow channel to the aneurysm in chimney endovascular aortic aneurysm repair: an in vitro study. <i>Journal of Artificial Organs</i> , 2019, 22, 200-206.	0.9	5
20	Underfilled Balloon-Expandable Transcatheter Aortic Valve Implantation With Ad Hoc Post-Dilation—Pulsatile Flow Simulation Using a Patient-Specific Three-Dimensional Printing Model. <i>Circulation Journal</i> , 2019, 83, 461-470.	1.6	4
21	In vitro flow and optical coherence tomography comparison of two bailout techniques after failed provisional stenting for bifurcation percutaneous coronary interventions. <i>Catheterization and Cardiovascular Interventions</i> , 2019, 93, E8-E16.	1.7	2
22	Intracoronary Electrocardiogram—Identification of the Culprit Artery in Asymptomatic Myocardial Infarction. <i>Circulation Reports</i> , 2019, 1, 352-353.	1.0	4
23	Experimental investigation of influence of stent designs and sizes on stent apposition using a left main coronary artery bifurcation model. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JISME</i> , 2019, 2019.32, 1E23.	0.0	0
24	Investigation of adverse events associated with an off-label use of arterial stents and CE-marked iliac vein stents in the iliac vein: insights into developing a better iliac vein stent. <i>Journal of Artificial Organs</i> , 2018, 21, 254-260.	0.9	9
25	Three-Dimensional Strain Measurements of a Tubular Elastic Model Using Tomographic Particle Image Velocimetry. <i>Cardiovascular Engineering and Technology</i> , 2018, 9, 395-404.	1.6	1
26	Low-temperature culturing improves survival rate of tissue-engineered cardiac cell sheets. <i>Biochemistry and Biophysics Reports</i> , 2018, 14, 89-97.	1.3	9
27	Quantitative assessment of paravalvular leakage after transcatheter aortic valve replacement using a patient-specific pulsatile flow model. <i>International Journal of Cardiology</i> , 2018, 258, 313-320.	1.7	27
28	Bench testing and coronary artery bifurcations: a consensus document from the European Bifurcation Club. <i>EuroIntervention</i> , 2018, 13, e1794-e1803.	3.2	28
29	Reduction in incomplete stent apposition area caused by jailed struts after single stenting at left main bifurcation lesions: micro-CT analysis using a three-dimensional elastic bifurcated coronary artery model. <i>Cardiovascular Intervention and Therapeutics</i> , 2017, 32, 12-17.	2.3	14
30	Investigation of the influence of fluid dynamics on thrombus growth at the interface between a connector and tube. <i>Journal of Artificial Organs</i> , 2017, 20, 293-302.	0.9	8
31	Analysis of the safety evaluation for premarketing clinical trials of hemodialyzer and of postmarketing safety reports of hemodialyzer in Japan and the US: insights into the construction of a sophisticated premarketing evaluation. <i>Journal of Artificial Organs</i> , 2017, 20, 62-70.	0.9	1
32	Real-time visualization of thrombus formation at the interface between connectors and tubes in medical devices by using optical coherence tomography. <i>PLoS ONE</i> , 2017, 12, e0188729.	2.5	8
33	A three-dimensional strain measurement method in elastic transparent materials using tomographic particle image velocimetry. <i>PLoS ONE</i> , 2017, 12, e0184782.	2.5	3
34	Study on the strain distribution measurement in an aortic valve model under a transcatheter aortic valve implantation. <i>The Proceedings of the Bioengineering Conference Annual Meeting of BED/JISME</i> , 2017, 2017.29, 2C21.	0.0	0
35	Time Series Analysis of the Effectiveness and Safety of Capsule Endoscopy between the Premarketing and Postmarketing Settings: A Meta-Analysis. <i>PLoS ONE</i> , 2016, 11, e0153662.	2.5	2
36	The effect of tendon stem/progenitor cell (TSC) sheet on the early tendon healing in a rat Achilles tendon injury model. <i>Acta Biomaterialia</i> , 2016, 42, 136-146.	8.3	61

#	ARTICLE	IF	CITATIONS
37	Regulatory science of new technology: tendency of medical professionals' interests on silicone breast implants. Journal of Artificial Organs, 2016, 19, 283-288.	0.9	1
38	Investigation of a novel strain measurement methodology to evaluate the strain in the aortic vessel model. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2016, 2016.27, B204.	0.0	0
39	2B25 Establishment of Non-clinical In Vitro Testing System and Methodology of Innovative Medical Devices for Approval : Facilitating Engineering Based Medicine. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2B25-1_-_2B25-5_.	0.0	0
40	2F13 Development of a registration method using points of skeleton for navigation in blood vessel prosthesis replacement and error assessment using clinical data. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2F13-1_-_2F13-5_.	0.0	0
41	2F35 Investigation of strain measurement method in elastic blood vessel model using tomographic particle image velocimetry. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2F35-1_-_2F35-5_.	0.0	0
42	2B14 Assessment of in vitro performance of a stentless mitral valve (Normo valve) using accelerated fatigue tests system. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2016, 2016.28, _2B14-1_-_2B14-5_.	0.0	0
43	Biomechanical Modeling to Improve Coronary Artery Bifurcation Stenting. JACC: Cardiovascular Interventions, 2015, 8, 1281-1296.	2.9	84
44	1D14 A proposal of evaluation criteria for anti-thrombogenicity of slow continuous hemofiltration devices. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 141-142.	0.0	1
45	B207 Strain analysis on a self-expandable Nitinol stent deployed in superficial femoral artery. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2015, 2015.26, 113-114.	0.0	0
46	2A35 Study on relationship between minimum horizontal cross-sectional area at anastomosis and energy loss for development of anastomosis assessment feedback system. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2015, 2015.27, 329-330.	0.0	0
47	Simultaneous comparison of thrombogenic reactions to different combinations of anticoagulants, activated clotting times, and materials. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2014, 102, 1605-1612.	3.4	1
48	2C22 Comparison of scattering risk of thrombus formed around smooth and meshed inflow cannulae of a left ventricular assist device using a novel in vitro thrombogenicity test methodology. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 349-350.	0.0	0
49	C109 Finite element analysis on the influence of cyclic bend angles on coronary stent fracture. The Proceedings of the JSME Conference on Frontiers in Bioengineering, 2014, 2014.25, 75-76.	0.0	0
50	1E43 In vitro construction of three dimensional tissue with circulation system. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2014, 2014.26, 159-160.	0.0	0
51	SY13 Non-clinical evaluation science of medical devices. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2013, 2013.25, 17-18.	0.0	0
52	Development of Bioreactor System for Bioengineering Three-Dimensional Myocardial Tissues. Journal of Life Support Engineering, 2009, 21, 104-109.	0.0	0
53	305 Real-time planar spectral analysis of instantaneous high-frequency stress on blood cells behind mechanical heart valves. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2007, 2006.19, 60-61.	0.0	0
54	316 PIV flow visualization analysis to predict a coil compaction using an anatomically identical cerebral aneurysm model. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2007, 2006.19, 82-83.	0.0	0

#	ARTICLE	IF	CITATIONS
55	319 Analyses of cerebral vascular diseases using CFD : Validation with PIV visualizing experiment. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2007, 2006.19, 88-89.	0.0	0
56	Development of the internal survey instrument of Spiral Vortex Pump for vacuum forming. Journal of Life Support Engineering, 2007, 19, 24-24.	0.0	0
57	315 Development of an accelerated fatigue tester to evaluate durability performance of vascular stent. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2007, 2006.19, 80-81.	0.0	0
58	306 Three-dimensional structure of the flow in Sinus of Valsalva using Stereoscopic PIV. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2007, 2006.19, 62-63.	0.0	0
59	505 Three-dimensional investigation of complex pulsatile flow structures inside a Spiral Vortex Ventricular Assist Device using Stereoscopic PIV. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2006, 2005.18, 309-310.	0.0	0
60	506 Wavelet-based analysis of instantaneous high frequency stress in the vicinity of artificial heart valve using Dynamic PIV measurements. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2006, 2005.18, 311-312.	0.0	0
61	625 Development of an accelerated fatigue tester to evaluate durability performance of vascular stent. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2006, 2005.18, 427-428.	0.0	0
62	Investigation of the metal mold of Spiral Vortex Pump for vacuum forming. Journal of Life Support Engineering, 2004, 16, 203-204.	0.0	0
63	Preliminary study of three dimensional flow characteristics in the Spiral Vortex blood pump using PIV measurement and numerical simulation. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2004, 2004.16, 245-246.	0.0	0
64	Investigation of in vitro blood compatibility test method of biomaterials for artificial hearts. Journal of Life Support Engineering, 2004, 16, 157-158.	0.0	0
65	Investigation of fabrication methodology to develop an inexpensive pulsatile Spiral Vortex blood pump. Journal of Life Support Engineering, 2004, 16, 155-156.	0.0	0
66	A challenge to establish in vitro anti-thrombogenic test methodology for artificial organs using a novel air-contactless pulsatile simulator. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2004, 2004.16, 217-218.	0.0	1
67	Development of a Polymer Bileaflet Valve to Realize a Low-Cost Pulsatile Blood Pump. Artificial Organs, 2003, 27, 78-83.	1.9	10
68	Development of two types of novel bioreactors for decellularization and in vitro pulsatile conditioning of endothelial cells cultured on the porcine aortic valves. The Proceedings of Conference of Kanto Branch, 2003, 2003.9, 83-84.	0.0	1
69	Development of an evaluation system for in vitro performance of coronary stents. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2003, 2003.15, 363-364.	0.0	0
70	Investigation of fabrication methodology to develop a low-cost pulsatile Spiral Vortex blood pump. The Proceedings of Conference of Kanto Branch, 2003, 2003.9, 91-92.	0.0	0
71	Development of a novel air-contactless pulsatile circuit for in vitro anti-thrombogenic tests of artificial organs. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2003, 2003.15, 361-362.	0.0	0
72	The Improved Jellyfish Valve: Durability Enhancement with Sufficient Blood Compatibility. ASAIO Journal, 2002, 48, 532-537.	1.6	8

#	ARTICLE	IF	CITATIONS
73	Implications for the Establishment of Accelerated Fatigue Test Protocols for Prosthetic Heart Valves. Artificial Organs, 2002, 26, 420-429.	1.9	13
74	Mock circulatory system for a technology support of the cardiovascular surgery. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2002, 2002.14, 53-54.	0.0	0
75	Design criterion of polymer heart valves to avoid calcification. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2002, 2002.14, 183-184.	0.0	0
76	Method of ranking of heart valve characteristics at mitral position based on statistical model analysis. Journal of Artificial Organs, 2001, 4, 131-137.	0.9	0
77	A new hypothesis on the mechanism of calcification formed on a blood-contacted polymer surface. Journal of Artificial Organs, 2001, 4, 74-82.	0.9	16
78	One Month Survival with the Undulation Pump Total Artificial Heart in a Goat. Artificial Organs, 2001, 25, 69-71.	1.9	2
79	Development of a Miniature Undulation Pump for the Distributed Artificial Heart. Artificial Organs, 2000, 24, 656-658.	1.9	2
80	A step forward for the undulation pump total artificial heart. Journal of Artificial Organs, 2000, 3, 70-74.	0.9	6