Yoshiki Sawa

List of Publications by Year
in descending order

109 papers	4,037 citations	159358 30 h-index	123241 61 g-index
119 all docs	119 docs citations	119 times ranked	4134 citing authors

#	Article	IF	Citations
1	Rapid and sensitive mycoplasma detection system using image-based deep learning. Journal of Artificial Organs, 2022, 25, 50-58.	0.4	3
2	Comparison of the Outcomes of Total Endovascular Aortic Arch Repair Between Branched Endograft and Chimney Endograft Technique in Zone 0 Landing. Journal of Endovascular Therapy, 2022, 29, 427-437.	0.8	10
3	A novel prostaglandin I2 agonist, ONO-1301, attenuates liver inflammation and suppresses fibrosis in non-alcoholic steatohepatitis model mice. Inflammation and Regeneration, 2022, 42, 3.	1.5	2
4	Practice Patterns and Outcomes of Transcatheter Aortic Valve Replacement in the United States and Japan: A Report From Joint Data Harmonization Initiative of STS/ACC TVT and Jâ€TVT. Journal of the American Heart Association, 2022, 11, e023848.	1.6	15
5	Chimerism through the activation of invariant natural killer T cells prolongs graft survival after transplantation of induced pluripotent stem cellâ€“derived allogeneic cardiomyocytes. PLoS ONE, 2022, 17, e0264317.	1.1	0
6	Yesâ€associated protein activation potentiates glycogen synthase kinaseâ€3 inhibitorâ€induced proliferation of neonatal cardiomyocytes and iPS cellâ€derived cardiomyocytes. Journal of Cellular Physiology, 2022, 237, 2539-2549.	2.0	7
7	Human-Induced Pluripotent Stem Cellâ€“Derived Cardiomyocyte Model for TNNT2 Î”160E-Induced Cardiomyopathy. Circulation Genomic and Precision Medicine, 2022, 15, .	1.6	5
8	Effect of Diabetes Mellitus on Outcomes in Patients With Left Ventricular Assist Deviceã€€â€• Analysis of Data From a Japanese National Database â€•. Circulation Journal, 2022, 86, 1950-1958.	0.7	3
9	New treatment strategy for severe heart failure: combination of ventricular assist device and regenerative therapy. Journal of Artificial Organs, 2021, 24, 1-5.	0.4	4
10	Thoracic and cardiovascular surgeries in Japan during 2018. General Thoracic and Cardiovascular Surgery, 2021, 69, 179-212.	0.4	85
11	Transcatheter aortic valve replacement as a bridge to surgical aortic valve replacement in a younger patient with extremely high surgical risk. Journal of Cardiac Surgery, 2021, 36, 386-389.	0.3	2
12	Autologous skeletal myoblast sheet implantation for pediatric dilated cardiomyopathy: A case report. General Thoracic and Cardiovascular Surgery, 2021, 69, 859-861.	0.4	5
13	Autologous skeletal myoblast patch implantation prevents the deterioration of myocardial ischemia and right heart dysfunction in a pressure-overloaded right heart porcine model. PLoS ONE, 2021, 16, e0247381.	1.1	3
14	Human induced pluripotent stem cell-derived three-dimensional cardiomyocyte tissues ameliorate the rat ischemic myocardium by remodeling the extracellular matrix and cardiac protein phenotype. PLoS ONE, 2021, 16, e0245571.	1.1	10
15	New regional drug delivery system by direct epicardial placement of slow-release prostacyclin agonist promise therapeutic angiogenesis in a porcine chronic myocardial infarction. Journal of Artificial Organs, 2021, 24, 465-472.	0.4	5
16	Innovative therapeutic strategy using prostaglandin I2 agonist (ONO1301) combined with nano drug delivery system for pulmonary arterial hypertension. Scientific Reports, 2021, 11, 7292.	1.6	6
17	New cell delivery system CellSaic with adipose-derived stromal cells promotes functional angiogenesis in critical limb ischemia model mice. Journal of Artificial Organs, 2021, 24, 343-350.	0.4	3
18	A novel model of chronic limb ischemia to therapeutically evaluate the angiogenic effects of drug candidates. American Journal of Physiology - Heart and Circulatory Physiology, 2021, 320, H1124-H1135.	1.5	7

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19	Clinical Outcomes of Autologous Stem Cellâ€“Patch Implantation for Patients With Heart Failure With Nonischemic Dilated Cardiomyopathy. Journal of the American Heart Association, 2021, 10, e008649.	1.6	9
20	Computational fluid dynamics visualizes turbulent flow in the aortic root of a patient under continuous-flow left ventricular assist device support. Journal of Thoracic and Cardiovascular Surgery, 2020, 159, e205-e207.	0.4	6
21	Formation of aortopulmonary collateral arteries during prolonged extracorporeal membrane oxygenation. European Journal of Cardio-thoracic Surgery, 2020, 57, 195-195.	0.6	0
22	A disintegrin and metalloproteinase 12 prevents heart failure by regulating cardiac hypertrophy and fibrosis. American Journal of Physiology - Heart and Circulatory Physiology, 2020, 318, H238-H251.	1.5	17
23	Adiponectin Stimulates Exosome Release to Enhance Mesenchymal Stem-Cell-Driven Therapy of Heart Failure in Mice. Molecular Therapy, 2020, 28, 2203-2219.	3.7	86
24	Lamininâ€221 Enhances Therapeutic Effects of Humanâ€Induced Pluripotent Stem Cellâ€“Derived 3â€Dimensional Engineered Cardiac Tissue Transplantation in a Rat Ischemic Cardiomyopathy Model. Journal of the American Heart Association, 2020, 9, e015841.	1.6	9
25	Syngeneic Mesenchymal Stem Cells Reduce Immune Rejection After Induced Pluripotent Stem Cell-Derived Allogeneic Cardiomyocyte Transplantation. Scientific Reports, 2020, 10, 4593.	1.6	36
26	Impact of turbulent blood flow in the aortic root on de novo aortic insufficiency during continuousâ€flow left ventricularâ€assist device support. Artificial Organs, 2020, 44, 883-891.	1.0	10
27	Role and therapeutic effects of skeletal muscle-derived non-myogenic cells in a rat myocardial infarction model. Stem Cell Research and Therapy, 2020, 11, 69.	2.4	8
28	Surgical Results for Infective Endocarditis Complicated With Cardiogenic Shock. Circulation Journal, 2020, 84, 926-934.	0.7	1
29	Endocardium differentiation through Sox17 expression in endocardium precursor cells regulates heart development in mice. Scientific Reports, 2019, 9, 11953.	1.6	23
30	Vasculogenically conditioned peripheral blood mononuclear cells inhibit mouse immune response to induced pluripotent stem cell-derived allogeneic cardiac grafts. PLoS ONE, 2019, 14, e0217076.	1.1	4
31	Geometrical Patterning and Constituent Cell Heterogeneity Facilitate Electrical Conduction Disturbances in a Human Induced Pluripotent Stem Cell-Based Platform: An In vitro Disease Model of Atrial Arrhythmias. Frontiers in Physiology, 2019, 10, 818.	1.3	15
32	Prostacyclin Analogueâ€“Loaded Nanoparticles Attenuate Myocardial Ischemia/Reperfusion Injury in Rats. JACC Basic To Translational Science, 2019, 4, 318-331.	1.9	17
33	Natural killer cells impede the engraftment of cardiomyocytes derived from induced pluripotent stem cells in syngeneic mouse model. Scientific Reports, 2019, 9, 10840.	1.6	9
34	A case of Mycobacterium chelonae mediastinitis and acute humoral rejection after heart transplantation. Journal of Cardiac Surgery, 2019, 34, 205-207.	0.3	3
35	Verification of pharmacogenomics-based algorithms to predict warfarin maintenance dose using registered data of Japanese patients. European Journal of Clinical Pharmacology, 2019, 75, 901-911.	0.8	11
36	Surgical Resection and Pazopanib Treatment for Recurrent Cardiac Angiosarcoma. BMC Clinical Pathology, 2019, 12, 2632010X1983126.	0.7	3

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37	Improvements in lower-limb muscle strength and foot pressure distribution with foot care in frail elderly adults: a randomized controlled trial from Japan. BMC Geriatrics, 2019, 19, 83.	1.1	7
38	The ideal way to design clinical trials and establishment of evidence for human cellular and tissueâ€based products in Japan. Journal of Tissue Engineering and Regenerative Medicine, 2019, 13, 905-907.	1.3	1
39	Surgery-first treatment improves clinical results in infective endocarditis complicated with disseminated intravascular coagulationâ€. European Journal of Cardio-thoracic Surgery, 2019, 56, 785-792.	0.6	7
40	MHC-mismatched Allotransplantation of Induced Pluripotent Stem Cell-derived Cardiomyocyte Sheets to Improve Cardiac Function in a Primate Ischemic Cardiomyopathy Model. Transplantation, 2019, 103, 1582-1590.	0.5	30
41	Blockade of NKG2D/NKG2D ligand interaction attenuated cardiac remodelling after myocardial infarction. Cardiovascular Research, 2019, 115, 765-775.	1.8	10
42	Laminin-511 Supplementation Enhances Stem Cell Localization With Suppression in the Decline of Cardiac Function in Acute Infarct Rats. Transplantation, 2019, 103, e119-e127.	0.5	11
43	Immunologic targeting of CD30 eliminates tumourigenic human pluripotent stem cells, allowing safer clinical application of hiPSC-based cell therapy. Scientific Reports, 2018, 8, 3726.	1.6	44
44	A prostacyclin agonist and an omental flap increased myocardial blood flow in a porcine chronic ischemia model. Journal of Thoracic and Cardiovascular Surgery, 2018, 156, 229-241.e14.	0.4	9
45	Pivotal Role of Non-cardiomyocytes in Electromechanical and Therapeutic Potential of Induced Pluripotent Stem Cell-Derived Engineered Cardiac Tissue. Tissue Engineering - Part A, 2018, 24, 287-300.	1.6	63
46	Diabetes mellitus adversely affects mortality and recurrence after valve surgery for infective endocarditis. Journal of Thoracic and Cardiovascular Surgery, 2018, 155, 1021-1029.e5.	0.4	21
47	Development of In Vitro Drug-Induced Cardiotoxicity Assay by Using Three-Dimensional Cardiac Tissues Derived from Human Induced Pluripotent Stem Cells. Tissue Engineering - Part C: Methods, 2018, 24, 56-67.	1.1	88
48	Myocardial regenerative therapy using a scaffold-free skeletal-muscle-derived cell sheet in patients with dilated cardiomyopathy even under a left ventricular assist device: a safety and feasibility study. Surgery Today, 2018, 48, 200-210.	0.7	47
49	Development of Myoblast Cell-Sheet Transplantation Therapy â€œHeart Sheetâ€•for Advanced Cardiovascular Disease. Iryo To Shakai, 2018, 28, 93-102.	0.0	1
50	Perioperative Enteral Nutrition After Left Ventricular Assist Device Implantation. Nutrition and Metabolic Insights, 2018, 11, 117863881881039.	0.8	0
51	Maturation of Human Induced Pluripotent Stem Cell-Derived Cardiomyocytes by Soluble Factors from Human Mesenchymal Stem Cells. Molecular Therapy, 2018, 26, 2681-2695.	3.7	135
52	Learning Curve for Transcatheter Aortic Valve Implantation Under a Controlled Introduction Systemã€€â€• Initial Analysis of a Japanese Nationwide Registry â€•. Circulation Journal, 2018, 82, 1951-1958.	0.7	21
53	Successful limb salvage through staged bypass combined with free gracilis muscle transfer for critical limb ischemia with osteomyelitis after failed endovascular therapy. Surgical Case Reports, 2018, 4, 40.	0.2	2
54	A Lesson From the Thalidomide Tragedyã€€â€• <i>The Past Is Never Dead. Itâ€™s Not Even Past.</i> William Faulkner, From â€œ<i>Requiem for a Nun</i>â€•â€•. Circulation Journal, 2018, 82, 2250-2252.	0.7	3

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55	Silent Native-valve Endocarditis Caused by <i>Propionibacterium acnes</i>. Internal Medicine, 2018, 57, 2417-2420.	0.3	8
56	Clinical Results, Adverse Events, and Change in End-Organ Function in Elderly Patients With HeartMateII Left Ventricular Assist Deviceã€€â€• Japanese Multicenter Study â€•. Circulation Journal, 2018, 82, 409-418.	0.7	15
57	Insurance systems and reimbursement concerning research and development of regenerative medicine in Japan. Regenerative Medicine, 2017, 12, 179-186.	0.8	14
58	Impact of intra-abdominal absorbable sutures on surgical site infection in gastrointestinal and hepato-biliary-pancreatic surgery: results of a multicenter, randomized, prospective, phase II clinical trial. Surgery Today, 2017, 47, 1060-1071.	0.7	19
59	Heart transplantation for adults with congenital heart disease: current status and future prospects. General Thoracic and Cardiovascular Surgery, 2017, 65, 309-320.	0.4	17
60	Intravenous retro-uterine echographic surveillance of the foetus during surgical thrombectomy for life-threatening pulmonary thromboembolism. European Journal of Cardio-thoracic Surgery, 2017, 52, 995-997.	0.6	1
61	Phase I Clinical Trial of Autologous Stem Cellâ€“Sheet Transplantation Therapy for Treating Cardiomyopathy. Journal of the American Heart Association, 2017, 6, .	1.6	142
62	Human Pluripotent Stem Cell-Derived Cardiac Tissue-like Constructs for Repairing the Infarcted Myocardium. Stem Cell Reports, 2017, 9, 1546-1559.	2.3	107
63	Histone Modification Is Correlated With Reverse Left Ventricular Remodeling in Nonischemic Dilated Cardiomyopathy. Annals of Thoracic Surgery, 2017, 104, 1531-1539.	0.7	29
64	Visualization of vortex flow and shear stress in the aortic root during left ventricular assist device support. Journal of Thoracic and Cardiovascular Surgery, 2017, 154, 877-878.e1.	0.4	8
65	The efficacy of tolvaptan in the perioperative management of chronic kidney disease patients undergoing open-heart surgery. Surgery Today, 2017, 47, 498-505.	0.7	13
66	Midterm Outcomes With a Self-Expandable Transcatheter Heart Valve in Japanese Patients With Symptomatic Severe Aortic Stenosis. Circulation Journal, 2017, 81, 1108-1115.	0.7	7
67	Five-Year Outcomes of the First Pivotal Clinical Trial of Balloon-Expandable Transcatheter Aortic Valve Replacement in Japan (PREVAIL JAPAN). Circulation Journal, 2017, 81, 1102-1107.	0.7	11
68	Molecular Mechanism Underlying Heterotaxy and Cardiac Isomerism. Nihon Shoni Junkanki Gakkai Zasshi = Pediatric Cardiology and Cardiac Surgery, 2017, 33, 349-361.	0.0	1
69	Building A New Treatment For Heart Failure-Transplantation of Induced Pluripotent Stem Cell-derived Cells into the Heart. Current Gene Therapy, 2016, 16, 5-13.	0.9	23
70	Skeletal Myoblast Cell Sheet Implantation Ameliorates Both Systolic and Diastolic Cardiac Performance in Canine Dilated Cardiomyopathy Model. Transplantation, 2016, 100, 295-302.	0.5	13
71	Teratocarcinomas Arising from Allogeneic Induced Pluripotent Stem Cell-Derived Cardiac Tissue Constructs Provoked Host Immune Rejection in Mice. Scientific Reports, 2016, 6, 19464.	1.6	27
72	Isolation and trans-differentiation of mesenchymal stromal cells into smooth muscle cells: Utility and applicability for cell-sheet engineering. Cytotherapy, 2016, 18, 510-517.	0.3	17

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73	Cardiomyocytes Derived from MHC-Homozygous Induced Pluripotent Stem Cells Exhibit Reduced Allogeneic Immunogenicity in MHC-Matched Non-human Primates. Stem Cell Reports, 2016, 6, 312-320.	2.3	115
74	Laminin Î±2-secreting fibroblasts enhance the therapeutic effect of skeletal myoblast sheets. European Journal of Cardio-thoracic Surgery, 2016, 51, ezw296.	0.6	7
75	Development of vascularized iPSC derived 3D-cardiomyocyte tissues by filtration Layer-by-Layer technique and their application for pharmaceutical assays. Acta Biomaterialia, 2016, 33, 110-121.	4.1	106
76	The impact of preoperative identification of the Adamkiewicz artery on descending and thoracoabdominal aortic repair. Journal of Thoracic and Cardiovascular Surgery, 2016, 151, 122-128.	0.4	52
77	Preliminary report on the cost effectiveness of ventricular assist devices. Journal of Artificial Organs, 2016, 19, 37-43.	0.4	12
78	A Development of Nucleic Chromatin Measurements as a New Prognostic Marker for Severe Chronic Heart Failure. PLoS ONE, 2016, 11, e0148209.	1.1	10
79	Development of PET Imaging to Visualize Activated Macrophages Accumulated in the Transplanted iPSc-Derived Cardiac Myocytes of Allogeneic Origin for Detecting the Immune Rejection of Allogeneic Cell Transplants in Mice. PLoS ONE, 2016, 11, e0165748.	1.1	19
80	A case of pediatric acute fulminant myocarditis, who could become a candidate for heart transplantation with an implantable left ventricular assist device (LVAD), after five months of intensive care using bilateral extracorporeal circulatory assists. Journal of the Japanese Society of Intensive Care Medicine, 2016, 23, 405-408.	0.0	1
81	Functional and Electrical Integration of Induced Phiripotent Stem Cell-Derived Cardiomyocytes in a Myocardial Infarction Rat Heart. Cell Transplantation, 2015, 24, 2479-2489.	1.2	58
82	Safety and Efficacy of Autologous Skeletal Myoblast Sheets (TCD-51073) for the Treatment of Severe Chronic Heart Failure Due to Ischemic Heart Disease. Circulation Journal, 2015, 79, 991-999.	0.7	144
83	Cell-sheet Therapy With Omentopexy Promotes Arteriogenesis and Improves Coronary Circulation Physiology in Failing Heart. Molecular Therapy, 2015, 23, 374-386.	3.7	43
84	Dynamic Nanoâ€Interfaces Enable Harvesting of Functional 3Dâ€Engineered Tissues. Advanced Healthcare Materials, 2015, 4, 1164-1168.	3.9	10
85	Consideration of and expectations for the Pharmaceuticals, Medical Devices and Other Therapeutic Products Act in Japan. Regenerative Therapy, 2015, 1, 80-83.	1.4	21
86	Dilated left atrium as a predictor of late outcome after pulmonary vein isolation concomitant with aortic valve replacement and/or coronary artery bypass grafting. European Journal of Cardio-thoracic Surgery, 2015, 48, 765-777.	0.6	25
87	N-Glycans: Phenotypic Homology and Structural Differences between Myocardial Cells and Induced Pluripotent Stem Cell-Derived Cardiomyocytes. PLoS ONE, 2014, 9, e111064.	1.1	14
88	Periodontal tissue regeneration by transplantation of adipose tissue-derived multi-lineage progenitor cells. Inflammation and Regeneration, 2014, 34, 109-116.	1.5	15
89	Early prediction of acute kidney injury biomarkers after endovascular stent graft repair of aortic aneurysm: a prospective observational study. Journal of Intensive Care, 2014, 2, 45.	1.3	14
90	Genetic mutations in adipose triglyceride lipase and myocardial up-regulation of peroxisome proliferated activated receptor-Î³ in patients with triglyceride deposit cardiomyovasculopathy. Biochemical and Biophysical Research Communications, 2014, 443, 574-579.	1.0	41

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91	First Clinical Trial of a Self-Expandable Transcatheter Heart Valve in Japan in Patients With Symptomatic Severe Aortic Stenosis. Circulation Journal, 2014, 78, 1083-1090.	0.7	38
92	A slow-releasing form of prostacyclin agonist (ONO1301SR) enhances endogenous secretion of multiple cardiotherapeutic cytokines and improves cardiac function in a rapid-pacingâ€“induced model of canine heart failure. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 413-421.	0.4	13
93	Current status of myocardial regeneration therapy. General Thoracic and Cardiovascular Surgery, 2013, 61, 17-23.	0.4	7
94	Synthetic prostacyclin agonist, ONO1301, enhances endogenous myocardial repair in a hamster model of dilated cardiomyopathy: A promising regenerative therapy for the failing heart. Journal of Thoracic and Cardiovascular Surgery, 2013, 146, 1516-1525.	0.4	24
95	Present and Future Perspectives on Cell Sheet-Based Myocardial Regeneration Therapy. BioMed Research International, 2013, 2013, 1-6.	0.9	44
96	Enhanced Survival of Transplanted Human Induced Pluripotent Stem Cellâ€“Derived Cardiomyocytes by the Combination of Cell Sheets With the Pedicled Omental Flap Technique in a Porcine Heart. Circulation, 2013, 128, S87-94.	1.6	175
97	In Vivo Differentiation of Induced Pluripotent Stem Cell-Derived Cardiomyocytes. Circulation Journal, 2013, 77, 1297-1306.	0.7	50
98	Sustained-Release Delivery of Prostacyclin Analogue Enhances Bone Marrow-Cell Recruitment and Yields Functional Benefits for Acute Myocardial Infarction in Mice. PLoS ONE, 2013, 8, e69302.	1.1	17
99	Feasibility, Safety, and Therapeutic Efficacy of Human Induced Pluripotent Stem Cell-Derived Cardiomyocyte Sheets in a Porcine Ischemic Cardiomyopathy Model. Circulation, 2012, 126, S29-37.	1.6	421
100	Impaired Myocardium Regeneration With Skeletal Cell Sheetsâ€”A Preclinical Trial for Tissue-Engineered Regeneration Therapy. Transplantation, 2010, 90, 364-372.	0.5	118
101	Layered implantation of myoblast sheets attenuates adverse cardiac remodeling of the infarcted heart. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 985-993.	0.4	93
102	Skeletal myoblast sheet transplantation improves the diastolic function of a pressure-overloaded right heart. Journal of Thoracic and Cardiovascular Surgery, 2009, 138, 460-467.	0.4	77
103	Grafted skeletal myoblast sheets attenuate myocardial remodeling in pacing-induced canine heart failure model. Journal of Thoracic and Cardiovascular Surgery, 2006, 132, 918-924.	0.4	150
104	Longer preservation of cardiac performance by sheet-shaped myoblast implantation in dilated cardiomyopathic hamsters. Cardiovascular Research, 2006, 69, 466-475.	1.8	162
105	Repair of impaired myocardium by means of implantation of engineered autologous myoblast sheets. Journal of Thoracic and Cardiovascular Surgery, 2005, 130, 1333-1341.	0.4	317
106	A CASE OF RE-MITRAL VALVE REPLACEMENT (MVR) FOLLOWING SPLENECTOMY FOR THROMBOCYTOPENIA DUE TO HYPERSPLENISM. Nihon Rinsho Geka Gakkai Zasshi (Journal of Japan Surgical Association), 2003, 64, 603-607.	0.0	0
107	Myocardial Regeneration Therapy for Heart Failure. Circulation, 2002, 105, 2556-2561.	1.6	163
108	Selectin on activated platelets enhances neutrophil endothelial adherence in myocardial reperfusion injury. Cardiovascular Research, 1999, 43, 968-973.	1.8	32

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109	Proteoglycan Expression During the Neointima Formation After Stent Implantation in Normal and Atherosclerotic Rabbit Aorta. The Journal of Japan Atherosclerosis Society, 1997, 24, 565-568.	0.0	0