

# Shungo Hikoso

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

92  
papers

4,398  
citations

27  
h-index

66  
g-index

106  
ext. papers

5,229  
ext. citations

5.4  
avg, IF

4.34  
L-index

#	Paper	IF	Citations
92	The role of autophagy in cardiomyocytes in the basal state and in response to hemodynamic stress. <i>Nature Medicine</i> , <b>2007</b> , 13, 619-24	50.5	1197
91	Mitochondrial DNA that escapes from autophagy causes inflammation and heart failure. <i>Nature</i> , <b>2012</b> , 485, 251-5	50.4	762
90	Inhibition of autophagy in the heart induces age-related cardiomyopathy. <i>Autophagy</i> , <b>2010</b> , 6, 600-6	10.2	321
89	Bcl-2-like protein 13 is a mammalian Atg32 homologue that mediates mitophagy and mitochondrial fragmentation. <i>Nature Communications</i> , <b>2015</b> , 6, 7527	17.4	256
88	Targeted deletion of apoptosis signal-regulating kinase 1 attenuates left ventricular remodeling. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2003</b> , 100, 15883-8	11.5	196
87	p38alpha mitogen-activated protein kinase plays a critical role in cardiomyocyte survival but not in cardiac hypertrophic growth in response to pressure overload. <i>Molecular and Cellular Biology</i> , <b>2004</b> , 24, 10611-20	4.8	188
86	Cardiac-specific disruption of the c-raf-1 gene induces cardiac dysfunction and apoptosis. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 937-943	15.9	138
85	Cardiac-specific overexpression of sarcolipin inhibits sarco(endo)plasmic reticulum Ca <sup>2+</sup> ATPase (SERCA2a) activity and impairs cardiac function in mice. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2004</b> , 101, 9199-204	11.5	89
84	Cardiac-specific disruption of the c-raf-1 gene induces cardiac dysfunction and apoptosis. <i>Journal of Clinical Investigation</i> , <b>2004</b> , 114, 937-43	15.9	80
83	Disruption of a single copy of the p38alpha MAP kinase gene leads to cardioprotection against ischemia-reperfusion. <i>Biochemical and Biophysical Research Communications</i> , <b>2003</b> , 302, 56-60	3.4	63
82	The antioxidant edaravone attenuates pressure overload-induced left ventricular hypertrophy. <i>Hypertension</i> , <b>2005</b> , 45, 921-6	8.5	62
81	CaMKII activates ASK1 and NF-kappaB to induce cardiomyocyte hypertrophy. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 327, 136-42	3.4	59
80	The I{kappa}B kinase {beta}/nuclear factor {kappa}B signaling pathway protects the heart from hemodynamic stress mediated by the regulation of manganese superoxide dismutase expression. <i>Circulation Research</i> , <b>2009</b> , 105, 70-9	15.7	56
79	Apoptosis signal-regulating kinase 1 is involved not only in apoptosis but also in non-apoptotic cardiomyocyte death. <i>Biochemical and Biophysical Research Communications</i> , <b>2005</b> , 333, 562-7	3.4	55
78	The small GTP-binding protein Rac1 induces cardiac myocyte hypertrophy through the activation of apoptosis signal-regulating kinase 1 and nuclear factor-kappa B. <i>Journal of Biological Chemistry</i> , <b>2003</b> , 278, 20770-7	5.4	51
77	Cardiac-specific overexpression of a high Ca <sup>2+</sup> affinity mutant of SERCA2a attenuates in vivo pressure overload cardiac hypertrophy. <i>FASEB Journal</i> , <b>2003</b> , 17, 61-3	0.9	50
76	Apoptosis signal-regulating kinase 1/p38 signaling pathway negatively regulates physiological hypertrophy. <i>Circulation</i> , <b>2008</b> , 117, 545-52	16.7	49

75	DNA single-strand break-induced DNA damage response causes heart failure. <i>Nature Communications</i> , <b>2017</b> , 8, 15104	17.4	45
74	Ca(2+)-sensitive tyrosine kinase Pyk2/CAK beta-dependent signaling is essential for G-protein-coupled receptor agonist-induced hypertrophy. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2004</b> , 36, 799-807	5.8	44
73	Calpain protects the heart from hemodynamic stress. <i>Journal of Biological Chemistry</i> , <b>2011</b> , 286, 32170-75.4	7.4	43
72	Presenilin 2 regulates the systolic function of heart by modulating Ca2+ signaling. <i>FASEB Journal</i> , <b>2005</b> , 19, 2069-71	0.9	39
71	Autophagy-mediated degradation is necessary for regression of cardiac hypertrophy during ventricular unloading. <i>Biochemical and Biophysical Research Communications</i> , <b>2013</b> , 441, 787-92	3.4	38
70	Downregulation of ferritin heavy chain increases labile iron pool, oxidative stress and cell death in cardiomyocytes. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2009</b> , 46, 59-66	5.8	38
69	Different Impacts of Time From Collapse to First Cardiopulmonary Resuscitation on Outcomes After Witnessed Out-of-Hospital Cardiac Arrest in Adults. <i>Circulation: Cardiovascular Quality and Outcomes</i> , <b>2015</b> , 8, 277-84	5.8	37
68	Rheb (Ras homologue enriched in brain)-dependent mammalian target of rapamycin complex 1 (mTORC1) activation becomes indispensable for cardiac hypertrophic growth after early postnatal period. <i>Journal of Biological Chemistry</i> , <b>2013</b> , 288, 10176-10187	5.4	35
67	Cardiac steroidogenesis and glucocorticoid in the development of cardiac hypertrophy during the progression to heart failure. <i>Journal of Hypertension</i> , <b>2009</b> , 27, 1074-83	1.9	34
66	Progression of heart failure was suppressed by inhibition of apoptosis signal-regulating kinase 1 via transcortary gene transfer. <i>Journal of the American College of Cardiology</i> , <b>2007</b> , 50, 453-62	15.1	34
65	Clinical Impact of Ventricular Tachycardia and/or Fibrillation During the Acute Phase of Acute Myocardial Infarction on In-Hospital and 5-Year Mortality Rates in the Percutaneous Coronary Intervention Era. <i>Circulation Journal</i> , <b>2016</b> , 80, 1539-47	2.9	26
64	Reduction in hemoglobin-oxygen affinity results in the improvement of exercise capacity in mice with chronic heart failure. <i>Journal of the American College of Cardiology</i> , <b>2008</b> , 52, 779-86	15.1	26
63	Targeted Genome Replacement via Homology-directed Repair in Non-dividing Cardiomyocytes. <i>Scientific Reports</i> , <b>2017</b> , 7, 9363	4.9	24
62	Pressure overload induces cardiac dysfunction and dilation in signal transducer and activator of transcription 6-deficient mice. <i>Circulation</i> , <b>2004</b> , 110, 2631-7	16.7	22
61	Prognostic Significance of Serum Cholinesterase Level in Patients With Acute Decompensated Heart Failure With Preserved Ejection Fraction: Insights From the PURSUIT-HFpEF Registry. <i>Journal of the American Heart Association</i> , <b>2020</b> , 9, e014100	6	20
60	Sex Differences in Heart Failure With Preserved Ejection Fraction. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e018574	6	16
59	Sex-related differences in left ventricular diastolic function and arterial elastance during admission in patients with heart failure with preserved ejection fraction: The PURSUIT HFpEF study. <i>Clinical Cardiology</i> , <b>2018</b> , 41, 1529-1536	3.3	15
58	Impact of Hyperglycemia on Long-Term Outcome in Patients With ST-Segment Elevation Myocardial Infarction. <i>American Journal of Cardiology</i> , <b>2020</b> , 125, 851-859	3	14

57	Study protocol for the PURSUIT-HFpEF study: a Prospective, Multicenter, Observational Study of Patients with Heart Failure with Preserved Ejection Fraction. <i>BMJ Open</i> , <b>2020</b> , 10, e038294	3	14
56	Prognostic Importance of Right Ventricular-Vascular Uncoupling in Acute Decompensated Heart Failure With Preserved Ejection Fraction. <i>Circulation: Cardiovascular Imaging</i> , <b>2020</b> , 13, e011430	3.9	13
55	Design and rationale of low-dose erythropoietin in patients with ST-segment elevation myocardial infarction (EPO-AMI-II study): a randomized controlled clinical trial. <i>Cardiovascular Drugs and Therapy</i> , <b>2012</b> , 26, 409-16	3.9	12
54	Activation of DNA Damage Response and Cellular Senescence in Cardiac Fibroblasts Limit Cardiac Fibrosis After Myocardial Infarction. <i>International Heart Journal</i> , <b>2019</b> , 60, 944-957	1.8	10
53	Adeno-associated virus-mediated gene delivery promotes S-phase entry-independent precise targeted integration in cardiomyocytes. <i>Scientific Reports</i> , <b>2020</b> , 10, 15348	4.9	10
52	Long-term Effects of the Janus Kinase 1/2 Inhibitor Ruxolitinib on Pulmonary Hypertension and the Cardiac Function in a Patient with Myelofibrosis. <i>Internal Medicine</i> , <b>2020</b> , 59, 229-233	1.1	10
51	Considerable scatter in the relationship between left atrial volume and pressure in heart failure with preserved left ventricular ejection fraction. <i>Scientific Reports</i> , <b>2020</b> , 10, 90	4.9	9
50	Low-Dose Erythropoietin in Patients With ST-Segment Elevation Myocardial Infarction (EPO-AMI-II) - A Randomized Controlled Clinical Trial. <i>Circulation Journal</i> , <b>2018</b> , 82, 1083-1091	2.9	7
49	Outcomes for Atrial Fibrillation Patients with Silent Left Atrial Thrombi Detected by Transesophageal Echocardiography. <i>American Journal of Cardiology</i> , <b>2017</b> , 120, 940-946	3	6
48	Association of lifestyle-related factors with circadian onset patterns of acute myocardial infarction: a prospective observational study in Japan. <i>BMJ Open</i> , <b>2014</b> , 4, e005067	3	6
47	Activation of MTK1/MEKK4 induces cardiomyocyte death and heart failure. <i>Journal of Molecular and Cellular Cardiology</i> , <b>2010</b> , 48, 302-9	5.8	6
46	Prognostic significance of the HFA-PEFF score in patients with heart failure with preserved ejection fraction. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 2154-2164	3.7	5
45	Effect of Extensive Ablation on Recurrence in Patients with Persistent Atrial Fibrillation Treated with Pulmonary Vein Isolation (EARNEST-PVI) trial: Design and rationale. <i>Journal of Cardiology</i> , <b>2019</b> , 74, 164-168	3	4
44	Impella 5.0 as a Bridge to Implantable Left Ventricular Assist Device - First Clinical Case in Japan. <i>Circulation Journal</i> , <b>2018</b> , 82, 2923-2924	2.9	4
43	Impact of readmissions on octogenarians with heart failure with preserved ejection fraction: PURSUIT-HFpEF registry. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 2120-2132	3.7	3
42	Phenotypic recapitulation and correction of desmoglein-2-deficient cardiomyopathy using human-induced pluripotent stem cell-derived cardiomyocytes. <i>Human Molecular Genetics</i> , <b>2021</b> , 30, 1384-1397	5.6	3
41	High density lipoprotein cholesterol / C reactive protein ratio in heart failure with preserved ejection fraction. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 2791-2801	3.7	3
40	Prognostic impact of Clinical Frailty Scale in patients with heart failure with preserved ejection fraction. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 3316-3326	3.7	3

39	Old-Age Onset Progressive Cardiac Contractile Dysfunction in a Patient with Polycystic Kidney Disease Harboring a PKD1 Frameshift Mutation. <i>International Heart Journal</i> , <b>2019</b> , 60, 220-225	1.8	3
38	Pulmonary vein isolation alone vs. more extensive ablation with defragmentation and linear ablation of persistent atrial fibrillation: the EARNEST-PVI trial. <i>Europace</i> , <b>2021</b> , 23, 565-574	3.9	3
37	Alpha-Klotho is a novel predictor of treatment responsiveness in patients with heart failure. <i>Scientific Reports</i> , <b>2021</b> , 11, 2058	4.9	3
36	Mechanism of Good Back-up Support With a Deep-Seated Guiding Catheter During Percutaneous Coronary Intervention. <i>Circulation Journal</i> , <b>2019</b> , 83, 1763	2.9	2
35	Prognostic significance of serum chloride level in heart failure patients with preserved ejection fraction.. <i>ESC Heart Failure</i> , <b>2022</b> ,	3.7	2
34	Prevalence of the Japanese high bleeding risk criteria and its prognostic significance for fatal bleeding in patients with acute myocardial infarction. <i>Heart and Vessels</i> , <b>2021</b> , 36, 1484-1495	2.1	2
33	Clinical impact of estimated plasma volume status and its additive effect with the GRACE risk score on in-hospital and long-term mortality for acute myocardial infarction. <i>IJC Heart and Vasculature</i> , <b>2021</b> , 33, 100748	2.4	2
32	Distinctive prognostic factor of heart failure with preserved ejection fraction stratified with admission blood pressure. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 3145-3155	3.7	2
31	Prognostic Impact of Echocardiographic Diastolic Dysfunction on Outcomes in Patients With Heart Failure With Preserved Ejection Fraction - Insights From the PURSUIT-HFpEF Registry. <i>Circulation Journal</i> , <b>2021</b> ,	2.9	2
30	Successful treatment of severe combined post- and pre-capillary pulmonary hypertension in a patient with idiopathic restrictive cardiomyopathy. <i>Pulmonary Circulation</i> , <b>2018</b> , 8, 2045894018770131	2.7	1
29	Sex Differences in the Efficacy of Pulmonary Vein Isolation Alone vs. Extensive Catheter Ablation in Patients With Persistent Atrial Fibrillation.. <i>Circulation Journal</i> , <b>2021</b> ,	2.9	1
28	Factors Associated With Elevated N-Terminal Pro B-Type Natriuretic Peptide Concentrations at the Convalescent Stage and 1-Year Outcomes in Patients With Heart Failure With Preserved Ejection Fraction. <i>Circulation Reports</i> , <b>2020</b> , 2, 400-408	0.7	1
27	Diastolic index as a short-term prognostic factor in heart failure with preserved ejection fraction. <i>Open Heart</i> , <b>2020</b> , 7,	3	1
26	Manual Thrombus Aspiration and its Procedural Stroke Risk in Myocardial Infarction. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e022258	6	1
25	The Effect of a Cancer History on Patients with Acute Myocardial Infarction After Percutaneous Coronary Intervention. <i>International Heart Journal</i> , <b>2021</b> , 62, 238-245	1.8	1
24	Impact of admission hyperglycaemia on clinical outcomes in non-diabetic heart failure with preserved ejection fraction. <i>ESC Heart Failure</i> , <b>2021</b> , 8, 3822-3834	3.7	1
23	Ratio of pulmonary artery diameter to ascending aortic diameter and severity of heart failure. <i>Journal of Heart and Lung Transplantation</i> , <b>2018</b> , 37, 1341-1350	5.8	1
22	The efficacy and safety of left atrial low-voltage area guided ablation for recurrence prevention compared to pulmonary vein isolation alone in patients with persistent atrial fibrillation trial: Design and rationale. <i>Clinical Cardiology</i> , <b>2021</b> , 44, 1249-1255	3.3	1

21	Left atrial pressure overload and prognosis in elderly patients with heart failure and preserved ejection fraction: a prospective multicenter observational study. <i>BMJ Open</i> , <b>2021</b> , 11, e044605	3	1
20	Long-Term Outcomes and Clinical Predictors of Mortality Following Occurrence of Stent Thrombosis.. <i>Journal of the American Heart Association</i> , <b>2022</b> , 11, e023276	6	1
19	Randomised controlled trial to investigate optimal antithrombotic therapy in patients with non-valvular atrial fibrillation undergoing percutaneous coronary intervention: a study protocol of the OPTIMA-AF trial.. <i>BMJ Open</i> , <b>2021</b> , 11, e048354	3	1
18	Diagnostic performance of coronary angiography utilizing intraprocedural 320-row computed tomography with minimal contrast medium. <i>Heart and Vessels</i> , <b>2020</b> , 35, 1341-1348	2.1	0
17	Impact of Afterload-Integrated Diastolic Index on Prognosis in Elderly Patients with Heart Failure with Preserved Ejection Fraction with and without Atrial Fibrillation.. <i>Journal of Atrial Fibrillation</i> , <b>2021</b> , 13, 2469	0.8	0
16	Prognostic Importance of Pulmonary Arterial Capacitance in Acute Decompensated Heart Failure With Preserved Ejection Fraction. <i>Journal of the American Heart Association</i> , <b>2021</b> , 10, e023043	6	0
15	InVivo Intracoronary Imaging Assessment of Cardiac Allograft Vasculopathy With Histopathologic Confirmation. <i>JACC: Cardiovascular Interventions</i> , <b>2020</b> , 13, 2305-2307	5	0
14	Alternative Echocardiographic Algorithm for Left Ventricular Filling Pressure in Patients With Heart Failure With Preserved Ejection Fraction. <i>American Journal of Cardiology</i> , <b>2021</b> , 143, 80-88	3	0
13	Abdominal obesity, and not general obesity, is associated with a lower 123I MIBG heart-to-mediastinum ratio in heart failure patients with preserved ejection fraction. <i>European Journal of Nuclear Medicine and Molecular Imaging</i> , <b>2021</b> , 1	8.8	0
12	Focal severe decrease in myocardial technetium-99 m sestamibi uptake indicates ventricular irreversibility in patients with dilated cardiomyopathy. <i>Annals of Nuclear Medicine</i> , <b>2021</b> , 35, 881-888	2.5	0
11	Decreased YAP activity reduces proliferative ability in human induced pluripotent stem cell of duchenne muscular dystrophy derived cardiomyocytes. <i>Scientific Reports</i> , <b>2021</b> , 11, 10351	4.9	0
10	Prognostic relevance of elevated plasma osmolality on admission in acute decompensated heart failure with preserved ejection fraction: insights from PURSUIT-HFpEF registry. <i>BMC Cardiovascular Disorders</i> , <b>2021</b> , 21, 281	2.3	0
9	Genome Editing in Human Induced Pluripotent Stem Cells (hiPSCs). <i>Methods in Molecular Biology</i> , <b>2021</b> , 2320, 235-245	1.4	0
8	Comparison of Intravascular Ultrasound and Optical Coherence Tomography Images of Calcified Lesions During Rotational Atherectomy. <i>JACC: Cardiovascular Interventions</i> , <b>2021</b> , 14, 474-475	5	0
7	Underweight Is Associated with Poor Prognosis in Heart Failure with Preserved Ejection Fraction. <i>International Heart Journal</i> , <b>2021</b> , 62, 1042-1051	1.8	0
6	Prognostic significance of dipstick proteinuria in heart failure with preserved ejection fraction: insight from the PURSUIT-HFpEF registry. <i>BMJ Open</i> , <b>2021</b> , 11, e049371	3	0
5	Tissue Mitral Annular Displacement in Patients With Myocardial Infarction - Comparison With Global Longitudinal Strain. <i>Circulation Reports</i> , <b>2021</b> , 3, 530-539	0.7	0
4	Comparison of Long-Term Outcomes Between Combination Antiplatelet and Anticoagulant Therapy and Anticoagulant Monotherapy in Patients With Atrial Fibrillation and Left Atrial Thrombi. <i>Circulation Reports</i> , <b>2020</b> , 2, 457-465	0.7	0

- 3 Dynamic Nature of Nodular Calcification in Cardiac Allograft Vasculopathy. *JACC: Cardiovascular Interventions*, **2021**, 14, 1378-1380 5
- 2 Differences in routes of guiding catheters for left coronary artery according to access sites assessed by the combined angiography-computed tomography system. *Cardiovascular Intervention and Therapeutics*, **2021**, 36, 298-306 2.5
- 1 Polycythemia Vera Associated with Pulmonary Hypertension and Diffuse Large B-Cell Lymphoma: A Case Report. *American Journal of Case Reports*, **2021**, 22, e932956 1.3