Shinichi Okuda

List of Publications by Year
in descending order

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83	2,075	279798	233421
papers	citations	23 h-index	45 g-index

88	88	88	1799
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	FKBP12.6-Mediated Stabilization of Calcium-Release Channel (Ryanodine Receptor) as a Novel Therapeutic Strategy Against Heart Failure. Circulation, 2003, 107, 477-484.	1.6	238
2	Dantrolene, a Therapeutic Agent for Malignant Hyperthermia, Markedly Improves the Function of Failing Cardiomyocytes by Stabilizing Interdomain Interactions Within the Ryanodine Receptor. Journal of the American College of Cardiology, 2009, 53, 1993-2005.	2.8	159
3	Catecholaminergic Polymorphic Ventricular Tachycardia Is Caused by Mutation-Linked Defective Conformational Regulation of the Ryanodine Receptor. Circulation Research, 2010, 106, 1413-1424.	4.5	138
4	Defective Regulation of Interdomain Interactions Within the Ryanodine Receptor Plays a Key Role in the Pathogenesis of Heart Failure. Circulation, 2005, 111, 3400-3410.	1.6	131
5	Propranolol Prevents the Development of Heart Failure by Restoring FKBP12.6-Mediated Stabilization of Ryanodine Receptor. Circulation, 2002, 105, 1374-1379.	1.6	120
6	Correction of Defective Interdomain Interaction Within Ryanodine Receptor by Antioxidant Is a New Therapeutic Strategy Against Heart Failure. Circulation, 2005, 112, 3633-3643.	1.6	110
7	Dantrolene, a Therapeutic Agent for Malignant Hyperthermia, Inhibits Catecholaminergic Polymorphic Ventricular Tachycardia in a RyR2R2474S/+ Knock-In Mouse Model. Circulation Journal, 2010, 74, 2579-2584.	1.6	107
8	Defective domain-domain interactions within the ryanodine receptor as a critical cause of diastolic Ca2+ leak in failing hearts. Cardiovascular Research, 2008, 81, 536-545.	3.8	78
9	Dissociation of calmodulin from cardiac ryanodine receptor causes aberrant Ca2+ release in heart failure. Cardiovascular Research, 2010, 87, 609-617.	3.8	72
10	A new cardioprotective agent, JTV519, improves defective channel gating of ryanodine receptor in heart failure. American Journal of Physiology - Heart and Circulatory Physiology, 2003, 284, H1035-H1042.	3.2	71
11	Defective calmodulin binding to the cardiac ryanodine receptor plays a key role in CPVT-associated channel dysfunction. Biochemical and Biophysical Research Communications, 2010, 394, 660-666.	2.1	69
12	Mutation-Linked Defective Interdomain Interactions Within Ryanodine Receptor Cause Aberrant Ca ²⁺ Release Leading to Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation, 2011, 124, 682-694.	1.6	58
13	Urinary 8â€hydroxyâ€2â€²â€deoxyguanosine reflects symptomatic status and severity of systolic dysfunction in patients with chronic heart failure. European Journal of Heart Failure, 2011, 13, 29-36.	7.1	52
14	Low-Dose Î²-Blocker in Combination With Milrinone Safely Improves Cardiac Function and Eliminates Pulsus Alternans in Patients With Acute Decompensated Heart Failure. Circulation Journal, 2012, 76, 1646-1653.	1.6	45
15	Can Transthoracic Doppler Echocardiography Predict the Discrepancy Between Left Ventricular End-Diastolic Pressure and Mean Pulmonary Capillary Wedge Pressure in Patients With Heart Failure?. Circulation Journal, 2005, 69, 432-438.	1.6	44
16	Valsartan Restores Sarcoplasmic Reticulum Function With No Appreciable Effect on Resting Cardiac Function in Pacing-Induced Heart Failure. Circulation, 2004, 109, 911-919.	1.6	38
17	Urinary 8-Hydroxy-2'-Deoxyguanosine as a Novel Biomarker for Predicting Cardiac Events and Evaluating the Effectiveness of Carvedilol Treatment in Patients With Chronic Systolic Heart Failure. Circulation Journal, 2012, 76, 117-126.	1.6	37
18	Simultaneous Doppler Tracing of Transmitral Inflow and Mitral Annular Velocity as an Estimate of Elevated Left Ventricular Filling Pressure in Patients With Atrial Fibrillation. Circulation Journal, 2012, 76, 675-681.	1.6	32

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19	A Low-Dose Î²₁-Blocker Effectively and Safely Slows the Heart Rate in Patients with Acute Decompensated Heart Failure and Rapid Atrial Fibrillation. Cardiology, 2014, 127, 105-113.	1.4	32
20	Impact of intraoperative transesophageal echocardiography in cardiac and thoracic aortic surgery: Experience in 1011 cases. Journal of Cardiology, 2009, 54, 282-288.	1.9	30
21	Enhanced binding of calmodulin to RyR2 corrects arrhythmogenic channel disorder in CPVT-associated myocytes. Biochemical and Biophysical Research Communications, 2014, 448, 1-7.	2.1	28
22	Enhanced binding of calmodulin to the ryanodine receptor corrects contractile dysfunction in failing hearts. Cardiovascular Research, 2012, 96, 433-443.	3.8	25
23	Is the Ratio of Transmitral Peak E-Wave Velocity to Color Flow Propagation Velocity Useful for Evaluating the Severity of Heart Failure in Atrial Fibrillation?. Circulation Journal, 2004, 68, 1132-1138.	1.6	24
24	AT1 Receptor Antagonist Restores Cardiac Ryanodine Receptor Function, Rendering Isoproterenol-Induced Failing Heart Less Susceptible to Ca2+-Leak Induced by Oxidative Stress. Circulation Journal, 2006, 70, 777-786.	1.6	24
25	CaMKII-mediated phosphorylation of RyR2 plays a crucial role in aberrant Ca2+ release as an arrhythmogenic substrate in cardiac troponin T-related familial hypertrophic cardiomyopathy. Biochemical and Biophysical Research Communications, 2018, 496, 1250-1256.	2.1	24
26	Ryanodine receptorâ€“bound calmodulin is essential to protect against catecholaminergic polymorphic ventricular tachycardia. JCI Insight, 2019, 4, .	5.0	24
27	Correction of impaired calmodulin binding to RyR2 as a novel therapy for lethal arrhythmia in the pressure-overloaded heart failure. Heart Rhythm, 2017, 14, 120-127.	0.7	23
28	Urinary 8-hydroxy-2â€²-deoxyguanosine as a novel biomarker of inflammatory activity in patients with cardiac sarcoidosis. International Journal of Cardiology, 2015, 190, 319-328.	1.7	22
29	Ischemic or Nonischemic Functional Mitral Regurgitation and Outcomes in Patients With Acute Decompensated Heart Failure With Preserved or Reduced Ejection Fraction. American Journal of Cardiology, 2017, 120, 809-816.	1.6	20
30	Dantrolene prevents ventricular tachycardia by stabilizing the ryanodine receptor in pressure-overload induced failing hearts. Biochemical and Biophysical Research Communications, 2020, 521, 57-63.	2.1	18
31	An oxidative stress biomarker, urinary 8-hydroxy-2â€²-deoxyguanosine, predicts cardiovascular-related death after steroid therapy for patients with active cardiac sarcoidosis. International Journal of Cardiology, 2016, 212, 206-213.	1.7	17
32	Enhancing calmodulin binding to cardiac ryanodine receptor completely inhibits pressure-overload induced hypertrophic signaling. Communications Biology, 2020, 3, 714.	4.4	17
33	A Low-Dose Î²1-Blocker in Combination with Milrinone Improves Intracellular Ca2+ Handling in Failing Cardiomyocytes by Inhibition of Milrinone-Induced Diastolic Ca2+ Leakage from the Sarcoplasmic Reticulum. PLoS ONE, 2015, 10, e0114314.	2.5	17
34	Nuclear translocation of calmodulin in pathological cardiac hypertrophy originates from ryanodine receptor bound calmodulin. Journal of Molecular and Cellular Cardiology, 2018, 125, 87-97.	1.9	15
35	Stabilizing cardiac ryanodine receptor prevents the development of cardiac dysfunction and lethal arrhythmia in Ca2+/calmodulin-dependent protein kinase IIÎ´c transgenic mice. Biochemical and Biophysical Research Communications, 2020, 524, 431-438.	2.1	14
36	Urinary 8-Hydroxy-2â€²-Deoxyguanosine as a Myocardial Oxidative Stress Marker Is Associated With Ventricular Tachycardia in Patients With Active Cardiac Sarcoidosis. Circulation: Cardiovascular Imaging, 2017, 10, .	2.6	12

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37	Inter-Technique Consistency and Prognostic Value of Intra-Procedural Angiographic and Echocardiographic Assessment of Aortic Regurgitation After Transcatheter Aortic Valve Implantation. Circulation Journal, 2018, 82, 2317-2325.	1.6	11
38	Addition of a Î²1-Blocker to Milrinone Treatment Improves Cardiac Function in Patients with Acute Heart Failure and Rapid Atrial Fibrillation. Cardiology, 2019, 142, 195-202.	1.4	9
39	Recombinant Atrial Natriuretic Peptide Prevents Aberrant Ca2+ Leakage through the Ryanodine Receptor by Suppressing Mitochondrial Reactive Oxygen Species Production Induced by Isoproterenol in Failing Cardiomyocytes. PLoS ONE, 2016, 11, e0163250.	2.5	8
40	G790del mutation in DSC2 alone is insufficient to develop the pathogenesis of ARVC in a mouse model. Biochemistry and Biophysics Reports, 2020, 21, 100711.	1.3	8
41	Stabilization of RyR2 maintains right ventricular function, reduces the development of ventricular arrhythmias, and improves prognosis in pulmonary hypertension. Heart Rhythm, 2022, 19, 986-997.	0.7	7
42	Assessment of the aortic valve annular geometry by real-time three-dimensional transthoracic echocardiography: comparison with two-dimensional transthoracic echocardiography and multidetector computed tomography. Journal of Echocardiography, 2014, 12, 24-30.	0.8	6
43	Mutation-linked, excessively tight interaction between the calmodulin binding domain and the C-terminal domain of the cardiac ryanodine receptor as a novel cause of catecholaminergic polymorphic ventricular tachycardia. Heart Rhythm, 2018, 15, 905-914.	0.7	6
44	Does a Ripple of Ca2+ÂLeak Develop Into aÂRogue Wave That CanÂTrigger Pathological Hypertrophy?. Journal of the American College of Cardiology, 2014, 63, 1580-1582.	2.8	4
45	Transcatheter and percutaneous procedures for huge pelvic arteriovenous malformations causing high-output heart failure. Journal of Cardiology Cases, 2015, 12, 162-165.	0.5	4
46	Successful treatment with intravenous cyclophosphamide for anti-melanoma differentiation-associated gene 5 antibody-positive dermatomyositis associated with myelodysplastic syndrome. Scandinavian Journal of Rheumatology, 2017, 46, 496-498.	1.1	4
47	Dantrolene prevents hepatic steatosis by reducing cytoplasmic Ca2+ level and ER stress. Biochemistry and Biophysics Reports, 2020, 23, 100787.	1.3	4
48	Malnutrition and Frailty Are Critical Determinants of 6-Month Outcome in Hospitalized Elderly Patients With Heart Failure Harboring Surgically Untreated Functional Mitral Regurgitation. Frontiers in Cardiovascular Medicine, 2021, 8, 764528.	2.4	4
49	New Data on Catecholaminergic Polymorphic Ventricular Tachycardia in Japan. Circulation Journal, 2013, 77, 1684-1686.	1.6	3
50	Relationship between Cardiac Sympathetic Hyperactivity and Myocardial Oxidative Stress in Patients with Takotsubo Cardiomyopathy. Journal of Cardiac Failure, 2015, 21, S146.	1.7	2
51	Bow hunter's syndrome. European Heart Journal Cardiovascular Imaging, 2016, 17, 948-948.	1.2	2
52	Detection of Active Inflammation Status Around Ventricular Aneurysms in Patients With Cardiac Sarcoidosis. Circulation Journal, 2019, 83, 2494-2504.	1.6	2
53	A case of mitochondrial disease with severe left ventricular hypertrophy. Journal of Medical Ultrasonics (2001), 2011, 38, 157-159.	1.3	1
54	Localized Doxorubicin-Induced Cardiomyopathy Complicated With Shower Emboli Originating From Apical Intramural Thrombi. Circulation Journal, 2018, 82, 2375-2376.	1.6	1

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55	Application of a Miniaturized Biplane Transesophageal Echocardiographic Probe in Adults. Journal of Echocardiography, 2004, 2, 83-89.	0.8	1
56	Prevalence and characteristics of transesophageal echocardiography-related esophageal mucosal injury in patients with atrial fibrillation who underwent pulmonary vein isolation. International Journal of Cardiology, 2022, 350, 118-124.	1.7	1
57	Echocardiographic features of acute-phase microscopic polyangiitis in Japanese patients: A single-centre retrospective study. Modern Rheumatology, 2021, , .	1.8	1
58	Myocardial Oxidative Stress Reflects Well Inflammatory Activity in Patients with Cardiac Sarcoidosis. Journal of Cardiac Failure, 2011, 17, S150.	1.7	0
59	Role of Ryanodine Receptor-Bound Calmodulin in Aberrant Ca2+ Release in CPVT-Associated Channel Dysfunction. Journal of Cardiac Failure, 2011, 17, S169-S170.	1.7	0
60	Enhancement of Calmodulin Binding to Cardiac Ryanodine Receptor Corrects the Defective Channel Gating in Failing Hearts. Journal of Cardiac Failure, 2011, 17, S170.	1.7	0
61	Heterogeneity of apex-to-base dispersion in diastolic lengthening is related to impaired global left ventricular relaxation in patients with hypertrophic cardiomyopathy. Journal of Echocardiography, 2011, 9, 9-16.	0.8	0
62	Urinary 8-hydroxy-2â€²-deoxyguanosine as a Novel Marker for Predicting the Inflammatory Activity in Patients with Cardiac Sarcoidosis. Journal of Cardiac Failure, 2012, 18, S150.	1.7	0
63	Low-dose of Landiolol Effectively Slows Heart Rate of Rapid Atrial Fibrillation in Patient with Acute Decompensated Heart Failure. Journal of Cardiac Failure, 2012, 18, S157-S158.	1.7	0
64	Correcting Inter-domain Interaction of Cardiac Ryanodine Receptor Inhibits Aberrant Ca2+ Release in Cardiac Troponin T-related Familial Hypertrophic Cardiomyopathy Mouse Model. Journal of Cardiac Failure, 2012, 18, S169.	1.7	0
65	Correction of Defective Calmodulin Binding to the Cardiac Ryanodine Receptor Inhibits Aberrant Ca2+ Release in CPVT-associated Channel Dysfunction. Journal of Cardiac Failure, 2012, 18, S188.	1.7	0
66	Dissociation of Calmodulin from RyR2 Plays a Key Role in Diastolic Ca2+ Leak from Sarcoplasmic Reticulum in Pressure-overload Heart Failure. Journal of Cardiac Failure, 2013, 19, S165-S166.	1.7	0
67	Novel Selective EP4 Receptor Agonists Restore the Intracellular Ca2+ Handling and the Cardiomyocyte Function in Heart Failure. Journal of Cardiac Failure, 2013, 19, S147.	1.7	0
68	Urinary 8-hydroxy-2â€²-Deoxyguanosine, a Biomarker of Oxidative Stress, Predicts Cardiac Events in Patients with Cardiac Sarcoidosis. Journal of Cardiac Failure, 2014, 20, S156.	1.7	0
69	RyR2 Stabilization by Inhibition of CaMKII-mediated Aberrant Ca2+ Release Suppress Arrhythmogenesis in Cardiac Troponin T-related Hypertrophic Cardiomyopathy. Journal of Cardiac Failure, 2014, 20, S189.	1.7	0
70	Dantrolene Inhibits Aberrant Ca2+ Release and Arrhythmogenesis in Pressure-overloaded Heart Failure. Journal of Cardiac Failure, 2014, 20, S173.	1.7	0
71	Kinetics of left ventricular rotation during exercise and its relation to exercise tolerance in atrial fibrillation: assessment by two-dimensional speckle tracking echocardiography. Journal of Echocardiography, 2014, 12, 89-97.	0.8	0
72	Binding Affinity of Calmodulin to Cardiac Ryanodine Receptor, as the Novel Therapeutic Target in the Pressure-overloaded Heart Failure. Journal of Cardiac Failure, 2014, 20, S173.	1.7	0

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73	Defective Ca2+ Regulation Causes Lethal Arrhythmia in CPVT KI Mice Model with Mutation in CaM-like Domain of RyR2. Journal of Cardiac Failure, 2014, 20, S173.	1.7	0
74	Dantrolene Suppresses Arrhythmogenesis by Inhibition of Aberrant Ca2+ Release Mediated by CaMKII and Ca2+ Buffering in Troponin T-related Hypertrophic Cardiomyopathy. Journal of Cardiac Failure, 2015, 21, S188.	1.7	0
75	Urinary 8-Hydroxy-2â€˜-Deoxyguanosine as an Oxidative Stress Biomarker, Predicts Cardiovascular Death after Steroid Therapy for Patients with Active Cardiac Sarcoidosis. Journal of Cardiac Failure, 2016, 22, S178.	1.7	0
76	Nuclear Translocation of Both Calmodulin, Which Bind to RyR2, and G Protein-Coupled Receptor Kinase 5 Promote the Pathological Cardiac Hypertrophy. Journal of Cardiac Failure, 2016, 22, S207.	1.7	0
77	Improvement of Defective Channel Function at RyR2 Mediated by CaMKII Activation and Ca2+ Buffering Suppresses Arrhythmogenesis in TnT-Related Hypertrophic Cardiomyopathy. Journal of Cardiac Failure, 2016, 22, S207.	1.7	0
78	Fixation of the Disturbing Ryanodine Receptor by Dantrolene Restores Cardiac Dysfunction and Suppreses Ventricular Arrhythmia in Mice Myocardial Infarction Model. Journal of Cardiac Failure, 2016, 22, S212-S213.	1.7	0
79	Fixing Ca2+ Leak through the Ryanodine Receptor Inhibits Cardiomyocyte Hypertrophy and Relaxation Impairment in the Compensated Pressure-overloaded Heart. Journal of Cardiac Failure, 2017, 23, S41.	1.7	0
80	Calmodulin, Which Dissociated from Cardiac Ryanodine Receptor, Plays a Pivotal Role in Driving Pathological Cardiac Hypertrophy. Journal of Cardiac Failure, 2017, 23, S41.	1.7	0
81	Images in Vascular Medicine: Usefulness of carotid ultrasonography for diagnosis and management of polymyalgia rheumatica-associated large-vessel vasculitis. Vascular Medicine, 2021, 26, 459-461.	1.5	0
82	The usefulness of subcostal view for the detection of severe stenosis in the middle segment of right coronary artery using coronary artery Doppler echocardiography. Journal of Echocardiography, 2021, , 1.	0.8	0
83	Abstract 238: Critical Role of Ryanodine Receptor Bound Calmodulin to Prevent Catecholaminergic Polymorphic Ventricular Tachycardia. Circulation Research, 2019, 125, .	4.5	0