

# Takao Shimayoshi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1527211/publications.pdf>

Version: 2024-02-01

38  
papers

147  
citations

1684188

5  
h-index

1281871

11  
g-index

38  
all docs

38  
docs citations

38  
times ranked

148  
citing authors

#	ARTICLE	IF	CITATIONS
1	Time-dependent changes in membrane excitability during glucose-induced bursting activity in pancreatic $\beta^2$ cells. <i>Journal of General Physiology</i> , 2011, 138, 39-47.	1.9	27
2	A Novel Method to Quantify Contribution of Channels and Transporters to Membrane Potential Dynamics. <i>Biophysical Journal</i> , 2009, 97, 3086-3094.	0.5	25
3	Mechanism of the Frank-Starling law: A simulation study with a novel cardiac muscle contraction model that includes titin and troponin I. <i>Journal of Molecular and Cellular Cardiology</i> , 2006, 41, 522-536.	1.9	20
4	The Cross-Bridge Dynamics during Ventricular Contraction Predicted by Coupling the Cardiac Cell Model with a Circulation Model. <i>Journal of Physiological Sciences</i> , 2007, 57, 275-285.	2.1	15
5	Modeling analysis of inositol 1,4,5-trisphosphate receptor-mediated $Ca^{2+}$ mobilization under the control of glucagon-like peptide-1 in mouse pancreatic $\beta^2$ -cells. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C337-C347.	4.6	9
6	A Method to Support Cell Physiological Modelling Using Description Language and Ontology. <i>IPSI Digital Courier</i> , 2006, 2, 726-735.	0.3	5
7	The Past, Current, and Future of our Email Services in Kyushu University. , 2018, , .		5
8	An approximation model of myocardial crossbridge for weak coupling calculation of left ventricle model and circulation model. , 2008, 2008, 957-60.		4
9	A CellML simulation compiler and code generator using ODE solving schemes. <i>Source Code for Biology and Medicine</i> , 2012, 7, 11.	1.7	4
10	Migrate Legacy Email Services in Kyushu University to Exchange Online. , 2019, , .		4
11	Quantitative Decomposition of Dynamics of Mathematical Cell Models: Method and Application to Ventricular Myocyte Models. <i>PLoS ONE</i> , 2015, 10, e0124970.	2.5	4
12	A Generic Representation Format of Physiological Experimental Protocols for Computer Simulation using Ontology. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society</i> , 2007, 2007, 382-5.	0.5	3
13	A study on prediction methods for a cardiovascular strong-coupling simulation. , 2011, 2011, 137-40.		3
14	Application of the Kalman Filter for Faster Strong Coupling of Cardiovascular Simulations. <i>IEEE Journal of Biomedical and Health Informatics</i> , 2016, 20, 1100-1106.	6.3	3
15	Our Experience with Introducing Microsoft Office 365 in Kyushu University. , 2017, , .		3
16	DynaBioS: A Platform for Cell/Biodynamics Simulators. <i>IEEJ Transactions on Electronics, Information and Systems</i> , 2007, 127, 1928-1936.	0.2	3
17	Renovation of the Office 365 environment in Kyushu University: Integration of Account Management and Authentication. , 2019, , .		2
18	Evaluation of cardiac oxygen consumption under hypoxia with tissue model integrating microcirculation model and cell model. , 2009, 2009, 3885-8.		1

#	ARTICLE	IF	CITATIONS
19	A general CellML simulation code generator using ODE solving scheme description. , 2011, 2011, 940-4.		1
20	A program code generator for multiphysics biological simulation using markup languages. , 2012, 2012, 6624-7.		1
21	A coupling method for a cardiovascular simulation model which includes the Kalman Filter. , 2012, 2012, 1222-5.		1
22	Theoretical analysis on the relationship between left ventricular energetic efficiency and acute infarct size. IET Systems Biology, 2013, 7, 74-78.	1.5	1
23	Code generator for distributed parameter biological model simulation with PDE numerical schemes. , 2013, 2013, 1494-7.		1
24	Nonlinear multiscale circulation model reproducible linear end-systolic pressure-volume relationship. , 2014, 2014, 6778-81.		1
25	A computational model of myocardial microcirculation including interstitial flow. , 2017, 2017, 3668-3671.		1
26	Reproducing Nonlinear Force Velocity Relation of Myocardial Tissue by a Nonlinear Parallel Elastic Component. , 2006, 2006, 612-5.		0
27	Computer Support for Physiological Cell Modelling using an Ontology on Cell Physiology. , 2006, 2006, 4171-4.		0
28	Stress Distribution in a Rotationally Symmetric and a Measurement Based Left Ventricular Shape Model. , 2006, 2006, 624-7.		0
29	Infant Circulation Model based on the Electrophysiological Cell Model. Annual International Conference of the IEEE Engineering in Medicine and Biology Society, 2007, 2007, 1010-3.	0.5	0
30	A method for analysis of simultaneous equations in cell models. , 2009, 2009, 2343-6.		0
31	Estimating Contribution Of Individual Ionic Components To The Cardiac Pacemaker Potential. Biophysical Journal, 2009, 96, 259a.	0.5	0
32	A study on the relationship between electrical transmural heterogeneity and ventricular energetics. , 2013, 2013, 6854-7.		0
33	PO148 MODELING ANALYSIS OF INOSITOL 1,4,5-TRISPHOSPHATE RECEPTOR (IP3R)-MEDIATED CA <sup>2+</sup> MOBILIZATION FROM INTRACELLULAR CA <sup>2+</sup> STORES IN PANCREATIC BETA CELLS. Diabetes Research and Clinical Practice, 2014, 106, S122.	2.8	0
34	A Preliminary Computational Model for Hypoxic Acidosis in Cardiac Myocytes. , 2018, 2018, 4540-4543.		0
35	Parameter Uncertainty Analysis of a Mathematical Ion Channel Model. , 2019, 2019, 1952-1955.		0
36	Challenge for Consolidation of Individual Email Services into a Cloud Service. , 2021, , .		0

#	ARTICLE	IF	CITATIONS
37	A Model for Simulation of Infant Cardiovascular Response to Orthostatic Stress. Lecture Notes in Computer Science, 2007, , 190-199.	1.3	0
38	Our Design and Implementation of Multi-Factor Authentication Deployment for Microsoft 365 in Kyushu University. , 2022, , .		0