Masashi Fujii

List of Publications by Year
in descending order

31 papers	311 citations	933447 10 h-index	996975 15 g-index
36 all docs	36 docs citations	36 times ranked	395 citing authors

#	Article	IF	Citations
1	Self-Organization of Diverse Directional Hierarchical Networks in Simple Coupled Maps with Connection Changes. Journal of the Physical Society of Japan, 2022, 91, .	1.6	1
2	Four features of temporal patterns characterize similarity among individuals and molecules by glucose ingestion in humans. Npj Systems Biology and Applications, 2022, 8, 6.	3.0	5
3	Fat Induces Glucose Metabolism in Nontransformed Liver Cells and Promotes Liver Tumorigenesis. Cancer Research, 2021, 81, 1988-2001.	0.9	43
4	Trans-omic analysis reveals obesity-associated dysregulation of inter-organ metabolic cycles between the liver and skeletal muscle. IScience, 2021, 24, 102217.	4.1	21
5	Trans-omic Analysis Reveals ROS-Dependent Pentose Phosphate Pathway Activation after High-Frequency Electrical Stimulation in C2C12 Myotubes. IScience, 2020, 23, 101558.	4.1	16
6	Single-Cell Information Analysis Reveals That Skeletal Muscles Incorporate Cell-to-Cell Variability as Information Not Noise. Cell Reports, 2020, 32, 108051.	6.4	12
7	Transomics analysis reveals allosteric and gene regulation axes for altered hepatic glucose-responsive metabolism in obesity. Science Signaling, 2020, 13, .	3.6	21
8	Spontaneous Organizations of Diverse Network Structures in Coupled Logistic Maps with a Delayed Connection Change. Journal of the Physical Society of Japan, 2020, 89, 114801.	1.6	4
9	Monitoring and mathematical modeling of mitochondrial ATP in myotubes at single‐cell level reveals two distinct population with different kinetics. Quantitative Biology, 2020, 8, 228-237.	0.5	4
10	Ultrasensitive Change in Nucleosome Binding by Multiple Phosphorylations to the Intrinsically Disordered Region of the Histone Chaperone FACT. Journal of Molecular Biology, 2020, 432, 4637-4657.	4.2	5
11	Affinity of rhodopsin to raft enables the aligned oligomer formation from dimers: Coarse-grained molecular dynamics simulation of disk membranes. PLoS ONE, 2020, 15, e0226123.	2.5	4
12	Robustness against additional noise in cellular information transmission. Physical Review E, 2019, 100, 042403.	2.1	4
13	Logical design of oral glucose ingestion pattern minimizing blood glucose in humans. Npj Systems Biology and Applications, 2019, 5, 31.	3.0	10
14	NMDAR-Mediated Ca2+ Increase Shows Robust Information Transfer in Dendritic Spines. Biophysical Journal, 2019, 116, 1748-1758.	0.5	5
15	Effects of low-carbohydrate diet and resistance exercise training on physical characteristics and concentrations of plasma metabolites and hormones. Japanese Journal of Physical Fitness and Sports Medicine, 2019, 68, 223-227.	0.0	0
16	Reconstruction of global regulatory network from signaling to cellular functions using phosphoproteomic data. Genes To Cells, 2019, 24, 82-93.	1.2	7
17	Increase in hepatic and decrease in peripheral insulin clearance characterize abnormal temporal patterns of serum insulin in diabetic subjects. Npj Systems Biology and Applications, 2018, 4, 14.	3.0	23
18	Trans-omic Analysis Reveals Selective Responses to Induced and Basal Insulin across Signaling, Transcriptional, and Metabolic Networks. IScience, 2018, 7, 212-229.	4.1	36

#	Article	IF	Citations
19	Small-Volume Effect Enables Robust, Sensitive, and Efficient Information Transfer in the Spine. Biophysical Journal, 2017, 112, 813-826.	0.5	12
20	Smallness of Spine Realizes Robust, Sensitive and Efficient information Transfer. Seibutsu Butsuri, 2017, 57, 305-308.	0.1	0
21	Matrix rank minimization approach to signal recovery and nonlinear function estimation for nonlinear ARX model with input nonlinearity. , 2017, , .		0
22	System identification of signaling dependent gene expression with different time-scale data. PLoS Computational Biology, 2017, 13, e1005913.	3.2	5
23	Selective control of up-regulated and down-regulated genes by temporal patterns and doses of insulin. Science Signaling, 2016, 9, ra112.	3.6	24
24	Laguerre Filter Analysis with Partial Least Square Regression Reveals a Priming Effect of ERK and CREB on c-FOS Induction. PLoS ONE, 2016, 11, e0160548.	2.5	2
25	Glucose Homeostatic Law: Insulin Clearance Predicts the Progression of Glucose Intolerance in Humans. PLoS ONE, 2015, 10, e0143880.	2.5	20
26	Stochasticity in Ca2+ Increase in Spines Enables Robust and Sensitive Information Coding. PLoS ONE, 2014, 9, e99040.	2.5	10
27	Influences of Excluded Volume of Molecules on Signaling Processes on the Biomembrane. PLoS ONE, 2013, 8, e62218.	2.5	1
28	Segregation-pattern reorientation of a granular mixture on a horizontally oscillating tray. Physical Review E, 2012, 85, 041304.	2.1	7
29	1F1512 Theoretical Study of Effect of Molecular Crowding on Signaling Pathway on Cell Membrane(Mathematical biology 1,The 49th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2011, 51, S43-S44.	0.1	0
30	Saddle-node bifurcation to jammed state for quasi-one-dimensional counter-chemotactic flow. Physical Review E, 2010, 82, 015102.	2.1	1
31	Counter Chemotactic Flow in Quasi-One-Dimensional Path. Journal of the Physical Society of Japan, 2009, 78, 073801.	1.6	8