

Hiromi Imamura

List of Publications by Year in descending order

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96
papers

6,170
citations

100601

38
h-index

87275

74
g-index

109
all docs

109
docs citations

109
times ranked

10385
citing authors

#	ARTICLE	IF	CITATIONS
1	High and stable ATP levels prevent aberrant intracellular protein aggregation in yeast. <i>ELife</i> , 2022, 11, .	2.8	23
2	Dynamics of ATP Levels in Single Dying Apoptotic Cells. <i>Seibutsu Butsuri</i> , 2022, 62, 125-127.	0.0	0
3	Lactate is an energy substrate for rodent cortical neurons and enhances their firing activity. <i>ELife</i> , 2021, 10, .	2.8	42
4	Higd1a improves respiratory function in the models of mitochondrial disorder. <i>FASEB Journal</i> , 2020, 34, 1859-1871.	0.2	16
5	In vivo real-time ATP imaging in zebrafish hearts reveals G0s2 induces ischemic tolerance. <i>FASEB Journal</i> , 2020, 34, 2041-2054.	0.2	10
6	Measurement of ATP concentrations in mitochondria of living cells using luminescence and fluorescence approaches. <i>Methods in Cell Biology</i> , 2020, 155, 199-219.	0.5	13
7	Spatiotemporal ATP Dynamics during AKI Predict Renal Prognosis. <i>Journal of the American Society of Nephrology: JASN</i> , 2020, 31, 2855-2869.	3.0	29
8	Monitoring and mathematical modeling of mitochondrial ATP in myotubes at single-cell level reveals two distinct population with different kinetics. <i>Quantitative Biology</i> , 2020, 8, 228-237.	0.3	4
9	Intracellular ATP levels in mouse cortical excitatory neurons varies with sleep-wake states. <i>Communications Biology</i> , 2020, 3, 491.	2.0	24
10	Shear stress activates mitochondrial oxidative phosphorylation by reducing plasma membrane cholesterol in vascular endothelial cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 33660-33667.	3.3	44
11	Single-cell dynamics of pannexin-1-facilitated programmed ATP loss during apoptosis. <i>ELife</i> , 2020, 9, .	2.8	34
12	NAD ⁺ consumption by PARP1 in response to DNA damage triggers metabolic shift critical for damaged cell survival. <i>Molecular Biology of the Cell</i> , 2019, 30, 2584-2597.	0.9	91
13	A molecular triage process mediated by RING finger protein 126 and BCL2-associated athanogene 6 regulates degradation of G0/G1 switch gene 2. <i>Journal of Biological Chemistry</i> , 2019, 294, 14562-14573.	1.6	14
14	PPAR δ -Mediated Positive-Feedback Loop Contributes to Cold Exposure Memory. <i>Scientific Reports</i> , 2019, 9, 4538.	1.6	5
15	Spindle pole body movement is affected by glucose and ammonium chloride in fission yeast. <i>Biochemical and Biophysical Research Communications</i> , 2019, 511, 820-825.	1.0	6
16	Reliable imaging of ATP in living budding and fission yeast. <i>Journal of Cell Science</i> , 2019, 132, .	1.2	30
17	OLIVE: A Genetically Encoded Fluorescent Biosensor for Quantitative Imaging of Branched-Chain Amino Acid Levels inside Single Living Cells. <i>ACS Sensors</i> , 2019, 4, 3333-3342.	4.0	21
18	Human AK2 links intracellular bioenergetic redistribution to the fate of hematopoietic progenitors. <i>Biochemical and Biophysical Research Communications</i> , 2018, 497, 719-725.	1.0	15

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19	Analysis of mitochondrial function in human induced pluripotent stem cells from patients with mitochondrial diabetes due to the A3243G mutation. <i>Scientific Reports</i> , 2018, 8, 949.	1.6	13
20	A Transient Rise in Free Mg ²⁺ Ions Released from ATP-Mg Hydrolysis Contributes to Mitotic Chromosome Condensation. <i>Current Biology</i> , 2018, 28, 444-451.e6.	1.8	116
21	A Trace Amount of Galactose, a Major Component of Milk Sugar, Allows Maturation of Glycoproteins during Sugar Starvation. <i>IScience</i> , 2018, 10, 211-221.	1.9	10
22	Automatic Quantitative Segmentation of Myotubes Reveals Single-cell Dynamics of S6 Kinase Activation. <i>Cell Structure and Function</i> , 2018, 43, 153-169.	0.5	2
23	Shear stress augments mitochondrial ATP generation that triggers ATP release and Ca ²⁺ signaling in vascular endothelial cells. <i>American Journal of Physiology - Heart and Circulatory Physiology</i> , 2018, 315, H1477-H1485.	1.5	62
24	General anesthetics cause mitochondrial dysfunction and reduction of intracellular ATP levels. <i>PLoS ONE</i> , 2018, 13, e0190213.	1.1	37
25	Glycolysis, but not Mitochondria, responsible for intracellular ATP distribution in cortical area of podocytes. <i>Proceedings for Annual Meeting of the Japanese Pharmacological Society</i> , 2018, WCP2018, PO2-4-22.	0.0	0
26	Mitochondrial dysfunction induces dendritic loss via eIF2 γ phosphorylation. <i>Journal of Cell Biology</i> , 2017, 216, 815-834.	2.3	47
27	Distinct intracellular Ca ²⁺ dynamics regulate apical constriction and differentially contribute to neural tube closure. <i>Development (Cambridge)</i> , 2017, 144, 1307-1316.	1.2	42
28	Cell competition with normal epithelial cells promotes apical extrusion of transformed cells through metabolic changes. <i>Nature Cell Biology</i> , 2017, 19, 530-541.	4.6	172
29	Application of FRET-Based Biosensor α -Team for Visualization of ATP Levels in the Mitochondrial Matrix of Living Mammalian Cells. <i>Methods in Molecular Biology</i> , 2017, 1567, 231-243.	0.4	30
30	Visualization of long-term Mg ²⁺ dynamics in apoptotic cells using a novel targetable fluorescent probe. <i>Chemical Science</i> , 2017, 8, 8255-8264.	3.7	28
31	Fusion protein analysis reveals the precise regulation between Hsp70 and Hsp100 during protein disaggregation. <i>Scientific Reports</i> , 2017, 7, 8648.	1.6	13
32	RLR-mediated antiviral innate immunity requires oxidative phosphorylation activity. <i>Scientific Reports</i> , 2017, 7, 5379.	1.6	44
33	ATP Maintenance via Two Types of ATP Regulators Mitigates Pathological Phenotypes in Mouse Models of Parkinson's Disease. <i>EBioMedicine</i> , 2017, 22, 225-241.	2.7	54
34	Evaluation of Mitochondrial Respiratory Activity Using a FRET-based Indicator for Intracellular ATP. <i>Seibutsu Butsuri</i> , 2017, 57, 268-270.	0.0	0
35	Monitoring ATP dynamics in electrically active white matter tracts. <i>ELife</i> , 2017, 6, .	2.8	102
36	Glycolysis, but not Mitochondria, responsible for intracellular ATP distribution in cortical area of podocytes. <i>Scientific Reports</i> , 2016, 5, 18575.	1.6	53

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37	BTeam, a Novel BRET-based Biosensor for the Accurate Quantification of ATP Concentration within Living Cells. <i>Scientific Reports</i> , 2016, 6, 39618.	1.6	75
38	Visualization of NO ₃ ⁻ /NO ₂ ⁻ Dynamics in Living Cells by Fluorescence Resonance Energy Transfer (FRET) Imaging Employing a Rhizobial Two-component Regulatory System. <i>Journal of Biological Chemistry</i> , 2016, 291, 2260-2269.	1.6	17
39	Macromolecular Crowding in the Cytosol: Underappreciated or Overestimated?. <i>Biophysical Journal</i> , 2015, 108, 114a.	0.2	0
40	Cardiac Energetics Re-evaluated by in Vivo Visualization of ATP Levels. <i>Journal of Cardiac Failure</i> , 2015, 21, S174.	0.7	0
41	The Plasma Membrane Calcium Pump in Pancreatic Cancer Cells Exhibiting the Warburg Effect Relies on Glycolytic ATP. <i>Journal of Biological Chemistry</i> , 2015, 290, 24760-24771.	1.6	35
42	Mitochondrial dysfunction in primary human fibroblasts triggers an adaptive cell survival program that requires AMPK- β . <i>Biochimica Et Biophysica Acta - Molecular Basis of Disease</i> , 2015, 1852, 529-540.	1.8	40
43	Mild Glucose Starvation Induces KDM2A-Mediated H3K36me ₂ Demethylation through AMPK To Reduce rRNA Transcription and Cell Proliferation. <i>Molecular and Cellular Biology</i> , 2015, 35, 4170-4184.	1.1	50
44	Associative Interactions in Crowded Solutions of Biopolymers Counteract Depletion Effects. <i>Journal of the American Chemical Society</i> , 2015, 137, 13041-13048.	6.6	55
45	Glucose-stimulated Single Pancreatic Islets Sustain Increased Cytosolic ATP Levels during Initial Ca ²⁺ Influx and Subsequent Ca ²⁺ Oscillations. <i>Journal of Biological Chemistry</i> , 2014, 289, 2205-2216.	1.6	43
46	Toll-like receptor 9 protects non-immune cells from stress by modulating mitochondrial ATP synthesis through the inhibition of SERCA 2. <i>EMBO Reports</i> , 2014, 15, 438-445.	2.0	66
47	ATP increases within the lumen of the endoplasmic reticulum upon intracellular Ca ²⁺ release. <i>Molecular Biology of the Cell</i> , 2014, 25, 368-379.	0.9	65
48	Evaluation of intramitochondrial ATP levels identifies G0/G1 switch gene 2 as a positive regulator of oxidative phosphorylation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 273-278.	3.3	101
49	Diversity in ATP concentrations in a single bacterial cell population revealed by quantitative single-cell imaging. <i>Scientific Reports</i> , 2014, 4, 6522.	1.6	293
50	ATP Imaging in <i>Xenopus laevis</i> Oocytes. , 2014, , 181-186.		2
51	In Vivo Fluorescent Adenosine 5'-Triphosphate (ATP) Imaging of <i>Drosophila melanogaster</i> and <i>Caenorhabditis elegans</i> by Using a Genetically Encoded Fluorescent ATP Biosensor Optimized for Low Temperatures. <i>Analytical Chemistry</i> , 2013, 85, 7889-7896.	3.2	103
52	Role of PFKFB3-Driven Glycolysis in Vessel Sprouting. <i>Cell</i> , 2013, 154, 651-663.	18.5	1,117
53	Genetically encoded fluorescent thermosensors visualize subcellular thermoregulation in living cells. <i>Nature Methods</i> , 2013, 10, 1232-1238.	9.0	207
54	Application of FRET Biosensors in Energy Metabolism. <i>Biophysical Journal</i> , 2013, 104, 304a.	0.2	0

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55	3P133 ATP quantification and live-imaging in <i>Xenopus laevis</i> oocyte(09. Development & Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	0.0	0
56	Visualization and Measurement of ATP Levels in Living Cells Replicating Hepatitis C Virus Genome RNA. <i>PLoS Pathogens</i> , 2012, 8, e1002561.	2.1	90
57	Principal Role of the Arginine Finger in Rotary Catalysis of F1-ATPase. <i>Journal of Biological Chemistry</i> , 2012, 287, 15134-15142.	1.6	37
58	Changes in Cytosolic ATP Levels and Intracellular Morphology during Bacteria-Induced Hypersensitive Cell Death as Revealed by Real-Time Fluorescence Microscopy Imaging. <i>Plant and Cell Physiology</i> , 2012, 53, 1768-1775.	1.5	29
59	Assessing Actual Contribution of IF1, Inhibitor of Mitochondrial FoF1, to ATP Homeostasis, Cell Growth, Mitochondrial Morphology, and Cell Viability. <i>Journal of Biological Chemistry</i> , 2012, 287, 18781-18787.	1.6	59
60	Spatiotemporal Correlations between Cytosolic and Mitochondrial Ca ²⁺ Signals Using a Novel Red-Shifted Mitochondrial Targeted Cameleon. <i>PLoS ONE</i> , 2012, 7, e45917.	1.1	41
61	MRT letter: Expression of ATP sensor protein in <i>Caenorhabditis elegans</i> . <i>Microscopy Research and Technique</i> , 2012, 75, 15-19.	1.2	9
62	Ca ²⁺ Regulation of Mitochondrial ATP Synthesis Visualized at the Single Cell Level. <i>ACS Chemical Biology</i> , 2011, 6, 709-715.	1.6	140
63	Quantitative Glucose and ATP Sensing in Mammalian Cells. <i>Pharmaceutical Research</i> , 2011, 28, 2745-2757.	1.7	53
64	Leucine Zipper EF Hand-containing Transmembrane Protein 1 (Letm1) and Uncoupling Proteins 2 and 3 (UCP2/3) Contribute to Two Distinct Mitochondrial Ca ²⁺ Uptake Pathways. <i>Journal of Biological Chemistry</i> , 2011, 286, 28444-28455.	1.6	86
65	ATP concentration change in <i>Caenorhabditis elegans</i> . <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 60-61.	0.5	0
66	Simultaneous ratiometric imaging of ATP and Ca ²⁺ concentrations inside single living cells. <i>Biochimica Et Biophysica Acta - Bioenergetics</i> , 2010, 1797, 126.	0.5	0
67	ATP Gradient Across the Innermitochondrial Membrane. <i>Biophysical Journal</i> , 2010, 98, 578a.	0.2	0
68	Reversible Dimerization of <i>Aequorea victoria</i> Fluorescent Proteins Increases the Dynamic Range of FRET-Based Indicators. <i>ACS Chemical Biology</i> , 2010, 5, 215-222.	1.6	99
69	Visualization of ATP levels inside single living cells with fluorescence resonance energy transfer-based genetically encoded indicators. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 15651-15656.	3.3	884
70	Direct perfluoroalkylation of non-activated aromatic C-H bonds of phenols. <i>Tetrahedron Letters</i> , 2008, 49, 4189-4191.	0.7	21
71	ATP Hydrolysis and Synthesis of a Rotary Motor V-ATPase from <i>Thermus thermophilus</i> . <i>Journal of Biological Chemistry</i> , 2008, 283, 20789-20796.	1.6	64
72	Correlation between the conformational states of F ₁ -ATPase as determined from its crystal structure and single-molecule rotation. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 20722-20727.	3.3	71

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73	3P-325 Spatio-temporal dynamics of intracellular ATP during apoptosis revealed by a genetically encoded fluorescent ATP indicator(The 46th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2008, 48, S177.	0.0	0
74	3P162 Determination the relationship between crystal structure and chemical state of F ₁ -ATPase by single molecule analysis(Molecular motors,Poster Presentations). Seibutsu Butsuri, 2007, 47, S243.	0.0	0
75	3P037 N-terminal domain of F ₁ -ATPase \hat{u} subunit affects ATP binding to the C-terminal domain(Proteins-structure and structure-function relationship,Poster Presentations). Seibutsu Butsuri, 2007, 47, S212.	0.0	0
76	New Structural Insights on Carbohydrate-active Enzymes. Journal of Applied Glycoscience (1999), 2007, 54, 95-102.	0.3	7
77	1P188 Reconstitution of V ₁ complex of Thermus thermophilus V-ATPase revealed that ATP binding to the A subunit is crucial for V ₁ formation(6. Macromolecular assembly,Poster) Tj ETQq1 1 0.784314 rgBT /Overlock.10 Tf 50677 Td (Se	0.1	0
78	Crystallization and preliminary X-ray analysis of cytosolic \hat{u} -mannosidase fromThermotoga maritima. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 104-105.	0.7	3
79	Reconstitution in Vitro of V ₁ Complex of Thermus thermophilus V-ATPase Revealed That ATP Binding to the A Subunit Is Crucial for V ₁ Formation. Journal of Biological Chemistry, 2006, 281, 38582-38591.	1.6	16
80	Structure of a central stalk subunit F of prokaryotic V-type ATPase/synthase from Thermus thermophilus. EMBO Journal, 2005, 24, 3974-3983.	3.5	53
81	Rotation, Structure, and Classification of Prokaryotic V-ATPase. Journal of Bioenergetics and Biomembranes, 2005, 37, 405-410.	1.0	62
82	Rotation scheme of V ₁ -motor is different from that of F ₁ -motor. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 17929-17933.	3.3	75
83	Transglycosylation Activity ofDictyoglomus thermophilumAmylase A. Bioscience, Biotechnology and Biochemistry, 2004, 68, 2369-2373.	0.6	25
84	The F Subunit of Thermus thermophilus V ₁ -ATPase Promotes ATPase Activity but Is Not Necessary for Rotation. Journal of Biological Chemistry, 2004, 279, 18085-18090.	1.6	24
85	Crystal structure of a central stalk subunit C and reversible association/dissociation of vacuole-type ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 59-64.	3.3	130
86	Molecular evolution of the ATPase subunit of three archaeal sugar ABC transporters. Biochemical and Biophysical Research Communications, 2004, 319, 230-234.	1.0	20
87	Unique metal dependency of cytosolic \hat{u} -mannosidase from Thermotoga maritima, a hyperthermophilic bacterium. Archives of Biochemistry and Biophysics, 2003, 415, 87-93.	1.4	23
88	Identification and Molecular Characterization of a Novel Type of \hat{u} -galactosidase fromPyrococcus furiosus. Biocatalysis and Biotransformation, 2003, 21, 243-252.	1.1	27
89	Evidence for rotation of V ₁ -ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 2312-2315.	3.3	185
90	Rotation of the Proteolipid Ring in the V-ATPase. Journal of Biological Chemistry, 2003, 278, 24255-24258.	1.6	82

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91	Subunit Arrangement in V-ATPase from <i>Thermus thermophilus</i> . <i>Journal of Biological Chemistry</i> , 2003, 278, 42686-42691.	1.6	52
92	Crystal Structures of 4- β -Glucanotransferase from <i>Thermococcus litoralis</i> and Its Complex with an Inhibitor. <i>Journal of Biological Chemistry</i> , 2003, 278, 19378-19386.	1.6	82
93	Identification of the Catalytic Residue of <i>Thermococcus litoralis</i> 4- β -Glucanotransferase through Mechanism-Based Labeling. <i>Biochemistry</i> , 2001, 40, 12400-12406.	1.2	38
94	Reaction Mechanism and Crystal Structure of 4- α -Glucanotransferase from a Hyperthermophilic Archaeon, <i>Thermococcus litoralis</i> . <i>Journal of Applied Glycoscience</i> (1999), 2001, 48, 171-175.	0.3	7
95	High level expression of <i>Thermococcus litoralis</i> 4- β -glucanotransferase in a soluble form in <i>Escherichia coli</i> with a novel expression system involving minor arginine tRNAs and GroELS. <i>FEBS Letters</i> , 1999, 457, 393-396.	1.3	26
96	Cloning of the Gene for Inorganic Pyrophosphatase from a Thermoacidophilic Archaeon, <i>Sulfolobus</i> sp. Strain 7, and Overproduction of the Enzyme by Coexpression of tRNA for Arginine Rare Codon. <i>Bioscience, Biotechnology and Biochemistry</i> , 1998, 62, 2408-2414.	0.6	26