Ichiro Yamato

List of Publications by Year
in descending order

38 papers	1,229 citations	430874 18 h-index	377865 34 g-index
41 all docs	41 docs citations	41 times ranked	857 citing authors

#	Article	IF	Citations
1	Structure of the Rotor of the V-Type Na ⁺ -ATPase from Enterococcus hirae. Science, 2005, 308, 654-659.	12.6	364
2	Rotation mechanism of Enterococcus hirae V1-ATPase based on asymmetric crystal structures. Nature, 2013, 493, 703-707.	27.8	114
3	Quantum Adaptivity in Biology: From Genetics to Cognition. , 2015, , .		58
4	Basic Properties of Rotary Dynamics of the Molecular Motor Enterococcus hirae V1-ATPase. Journal of Biological Chemistry, 2013, 288, 32700-32707.	3.4	51
5	Quantum Information Biology: From Information Interpretation of Quantum Mechanics to Applications in Molecular Biology and Cognitive Psychology. Foundations of Physics, 2015, 45, 1362-1378.	1.3	50
6	Purification and Reconstitution of Na+-translocating Vacuolar ATPase from Enterococcus hirae. Journal of Biological Chemistry, 1997, 272, 24885-24890.	3.4	49
7	Crystal structure of the central axis DF complex of the prokaryotic V-ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 19955-19960.	7.1	47
8	Structure and function of vacuolar Na+-translocating ATPase in Enterococcus hirae. Journal of Bioenergetics and Biomembranes, 1999, 31, 7-14.	2.3	42
9	Structure of the rotor ring modified with N , N ^{â€²} -dicyclohexylcarbodiimide of the Na ⁺ -transporting vacuolar ATPase. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 13474-13479.	7.1	41
10	Crystal structures of the ATP-binding and ADP-release dwells of the V1 rotary motor. Nature Communications, 2016, 7, 13235.	12.8	40
11	The ntpJ Gene in the Enterococcus hirae ntp Operon Encodes a Component of KtrII Potassium Transport System Functionally Independent of Vacuolar Na+-ATPase. Journal of Biological Chemistry, 1996, 271, 10042-10047.	3.4	39
12	Quantum-like model for the adaptive dynamics of the genetic regulation of E. coliâ€™s metabolism of glucose/lactose. Systems and Synthetic Biology, 2012, 6, 1-7.	1.0	37
13	A model of epigenetic evolution based on theory of open quantum systems. Systems and Synthetic Biology, 2013, 7, 161-173.	1.0	37
14	Non-Kolmogorovian Approach to the Context-Dependent Systems Breaking the Classical Probability Law. Foundations of Physics, 2013, 43, 895-911.	1.3	35
15	Quantum-like interference effect in gene expression: glucose-lactose destructive interference. Systems and Synthetic Biology, 2011, 5, 59-68.	1.0	29
16	The Membrane Domain of the Na+-motive V-ATPase from Enterococcus hirae Contains a Heptameric Rotor. Journal of Biological Chemistry, 2003, 278, 21162-21167.	3.4	27
17	Quantum-like model of diauxie in Escherichia coli: Operational description of precultivation effect. Journal of Theoretical Biology, 2012, 314, 130-137.	1.7	26
18	A model of differentiation in quantum bioinformatics. Progress in Biophysics and Molecular Biology, 2017, 130, 88-98.	2.9	21

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19	Reconstitution in vitro of the catalytic portion (NtpA3-B3-D-G complex) of Enterococcus hirae V-type Na+-ATPase. Biochemical and Biophysical Research Communications, 2009, 390, 698-702.	2.1	20
20	Enterococcus hiraevacuolar ATPase is expressed in response to pH as well as sodium. FEBS Letters, 1999, 454, 67-70.	2.8	14
21	Metastable asymmetrical structure of a shaftless V ‹sub›1‹/sub› motor. Science Advances, 2019, 5, eaau8149.	10.3	13
22	Operating principles of rotary molecular motors: differences between F₁ and V₁ motors. Biophysics and Physicobiology, 2016, 13, 37-44.	1.0	9
23	Loose Binding of the DF Axis with the A3B3 Complex Stimulates the Initial Activity of Enterococcus hirae V1-ATPase. PLoS ONE, 2013, 8, e74291.	2.5	7
24	Three-body system metaphor for the two-slit experiment and Escherichia coli lactoseâ€“glucose metabolism. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2016, 374, 20150243.	3.4	7
25	Energy and information flows in biological systems: Bioenergy transduction of V 1 -ATPase rotary motor and dynamics of thermodynamic entropy in information flows. Progress in Biophysics and Molecular Biology, 2017, 130, 33-38.	2.9	7
26	Rotational Mechanism Model of the Bacterial V1 Motor Based on Structural and Computational Analyses. Frontiers in Physiology, 2019, 10, 46.	2.8	7
27	Deletion Analysis of the Subunit Genes of V-Type Na+-ATPase from Enterococcus hirae. Journal of Biochemistry, 2006, 139, 1045-1052.	1.7	6
28	Mutagenesis of the Residues Forming an Ion Binding Pocket of the NtpK Subunit of Enterococcus hirae V-ATPase. Journal of Bacteriology, 2012, 194, 4546-4549.	2.2	6
29	Ordered Binding Model as a General Tight Coupling Mechanism for Bioenergy Transduction-A Hypothesis.. Proceedings of the Japan Academy Series B: Physical and Biological Sciences, 1993, 69, 218-223.	3.8	4
30	Role of Asp187 and Gln190 in the Na+/proline symporter (PutP) of Escherichia coli. Journal of Biochemistry, 2011, 150, 395-402.	1.7	4
31	Calculating the Na+ translocating V-ATPase catalytic site affinity for substrate binding by homology modeled NtpA monomer using molecular dynamics/free energy calculation. Journal of Molecular Graphics and Modelling, 2012, 37, 59-66.	2.4	4
32	Application of Non-Kolmogorovian Probability and Quantum Adaptive Dynamics to Unconscious Inference in Visual Perception Process. Open Systems and Information Dynamics, 2016, 23, 1650011.	1.2	4
33	Significance of the Glutamate-139 Residue of the V-Type Na+-ATPase NtpK Subunit in Catalytic Turnover Linked with Salt Tolerance of Enterococcus hirae. Journal of Bacteriology, 2011, 193, 3657-3661.	2.2	3
34	Adaptive Dynamics and Its Application to Context Dependent Systems Breaking the Classical Probability Law. Lecture Notes in Computer Science, 2012, , 160-171.	1.3	3
35	An affinity change model to elucidate the rotation mechanism of V1-ATPase. Biochemical and Biophysical Research Communications, 2020, 533, 1413-1418.	2.1	1
36	Lamarckian Evolution of Epigenome from Open Quantum Systems and Entanglement. Lecture Notes in Computer Science, 2014, , 324-334.	1.3	0

#	Article	IF	Citations
37	Fundamentals of Molecular Biology. , 2015, , 41-55.		0
38	Editorial. Progress in Biophysics and Molecular Biology, 2017, 130, 1.	2.9	0