Toru Hisabori

List of Publications by Year
in descending order

162 papers	6,327 citations	76031 42 h-index	97045 71 g-index
168 all docs	168 docs citations	168 times ranked	5406 citing authors

#	Article	IF	Citations
1	The mammalian-type thioredoxin reductase 1 confers a high-light tolerance to the green alga Chlamydomonas reinhardtii. Biochemical and Biophysical Research Communications, 2022, 596, 97-103.	1.0	4
2	Verification of the Relationship between Redox Regulation of Thioredoxin Target Proteins and Their Proximity to Thylakoid Membranes. Antioxidants, 2022, 11, 773.	2.2	0
3	The Importance of the C-Terminal Cys Pair of Phosphoribulokinase in Phototrophs in Thioredoxin-Dependent Regulation. Plant and Cell Physiology, 2022, 63, 855-868.	1.5	4
4	Biochemical Basis for Redox Regulation of Chloroplast-Localized Phosphofructokinase from <i>Arabidopsis thaliana</i>. Plant and Cell Physiology, 2021, 62, 401-410.	1.5	16
5	Thioredoxin pathway in <i>Anabaena</i> sp. PCC 7120: activity of NADPH-thioredoxin reductase C. Journal of Biochemistry, 2021, 169, 709-719.	0.9	3
6	Redox regulation of NADP-malate dehydrogenase is vital for land plants under fluctuating light environment. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	30
7	The evolutionary conserved iron-sulfur protein TCR controls P700 oxidation in photosystem I. IScience, 2021, 24, 102059.	1.9	3
8	Characterization of Chlamydomonas reinhardtii Mutants That Exhibit Strong Positive Phototaxis. Plants, 2021, 10, 1483.	1.6	3
9	The phototroph-specific Î²-hairpin structure of the Î³ subunit of FoF1-ATP synthase is important for efficient ATP synthesis of cyanobacteria. Journal of Biological Chemistry, 2021, 297, 101027.	1.6	8
10	Monitoring cellular redox dynamics using newly developed BRET-based redox sensor proteins. Journal of Biological Chemistry, 2021, 297, 101186.	1.6	0
11	Rapid estimation of cytosolic ATP concentration from the ciliary beating frequency in the green alga Chlamydomonas reinhardtii. Journal of Biological Chemistry, 2021, 296, 100156.	1.6	4
12	A luminescent Nanoluc-GFP fusion protein enables readout of cellular pH in photosynthetic organisms. Journal of Biological Chemistry, 2021, 296, 100134.	1.6	14
13	The four-celled Volvocales green alga Tetrabaena socialis exhibits weak photobehavior and high-photoprotection ability. PLoS ONE, 2021, 16, e0259138.	1.1	2
14	Oxidative regulation of chloroplast enzymes by thioredoxin and thioredoxin-like proteins in <i>Arabidopsis thaliana</i>. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	3.3	29
15	Thioredoxin targets are regulated in heterocysts of cyanobacterium Anabaena sp. PCC 7120 in a light-independent manner. Journal of Experimental Botany, 2020, 71, 2018-2027.	2.4	9
16	Structural basis for thioredoxin isoformâ€based fineâ€tuning of ferredoxinâ€thioredoxin reductase activity. Protein Science, 2020, 29, 2538-2545.	3.1	11
17	Chloroplast ATP synthase is reduced by both f-type and m-type thioredoxins. Biochimica Et Biophysica Acta - Bioenergetics, 2020, 1861, 148261.	0.5	22
18	Regulation machineries of ATP synthase from phototroph. Advances in Botanical Research, 2020, 96, 1-26.	0.5	2

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19	Biochemical insight into redox regulation of plastidial 3-phosphoglycerate dehydrogenase from Arabidopsis thaliana. Journal of Biological Chemistry, 2020, 295, 14906-14915.	1.6	7
20	Real-time monitoring of the in vivo redox state transition using the ratiometric redox state sensor protein FROG/B. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 16019-16026.	3.3	19
21	Cilia Loss and Dynein Assembly Defects in Planaria Lacking an Outer Dynein Arm-Docking Complex Subunit. Zoological Science, 2020, 37, 7.	0.3	5
22	Impact of key residues within chloroplast thioredoxin-f on recognition for reduction and oxidation of target proteins. Journal of Biological Chemistry, 2019, 294, 17437-17450.	1.6	24
23	The thioredoxin (Trx) redox state sensor protein can visualize Trx activities in the light/dark response in chloroplasts. Journal of Biological Chemistry, 2019, 294, 12091-12098.	1.6	28
24	The Î²-hairpin region of the cyanobacterial F1-ATPase Î³-subunit plays a regulatory role in the enzyme activity. Biochemical Journal, 2019, 476, 1771-1780.	1.7	5
25	Thioredoxin-like2/2-Cys peroxiredoxin redox cascade acts as oxidative activator of glucose-6-phosphate dehydrogenase in chloroplasts. Biochemical Journal, 2019, 476, 1781-1790.	1.7	23
26	The N-terminal region of the Îµ subunit from cyanobacterial ATP synthase alone can inhibit ATPase activity. Journal of Biological Chemistry, 2019, 294, 10094-10103.	1.6	3
27	Thiol-based Redox Regulation in Plant Chloroplasts. Signaling and Communication in Plants, 2019, , 1-17.	0.5	3
28	Disruption of the Gene trx-m1 Impedes the Growth of Anabaena sp. PCC 7120 under Nitrogen Starvation. Plant and Cell Physiology, 2019, 60, 1504-1513.	1.5	5
29	Multicolor redox sensor proteins can visualize redox changes in various compartments of the living cell. Biochimica Et Biophysica Acta - General Subjects, 2019, 1863, 1098-1107.	1.1	8
30	Light-inducible expression of translation factor EF-Tu during acclimation to strong light enhances the repair of photosystem II. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 21268-21273.	3.3	27
31	New Light on Chloroplast Redox Regulation: Molecular Mechanism of Protein Thiol Oxidation. Frontiers in Plant Science, 2019, 10, 1534.	1.7	32
32	Simple Method to Determine Protein Redox State in Arabidopsis thaliana. Bio-protocol, 2019, 9, e3250.	0.2	10
33	Thioredoxin regulates G6PDH activity by changing redox states of OpcA in the nitrogen-fixing cyanobacterium <i>Anabaena</i> sp. PCC 7120. Biochemical Journal, 2018, 475, 1091-1105.	1.7	16
34	Spatio-Temporal Gene Induction Systems in the Heterocyst-Forming Multicellular Cyanobacterium Anabaena sp. PCC 7120. Plant and Cell Physiology, 2018, 59, 82-89.	1.5	15
35	Oxidation of Translation Factor EF-Tu Inhibits the Repair of Photosystem II. Plant Physiology, 2018, 176, 2691-2699.	2.3	39
36	Application of CRISPR Interference for Metabolic Engineering of the Heterocyst-Forming Multicellular Cyanobacterium Anabaena sp. PCC 7120. Plant and Cell Physiology, 2018, 59, 119-127.	1.5	51

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37	Amputation of a C-terminal helix of the Î³ subunit increases ATP-hydrolysis activity of cyanobacterial F1 ATP synthase. Biochimica Et Biophysica Acta - Bioenergetics, 2018, 1859, 319-325.	0.5	3
38	Determining the Rate-Limiting Step for Light-Responsive Redox Regulation in Chloroplasts. Antioxidants, 2018, 7, 153.	2.2	16
39	Structure of the Î³â€“Îµ complex of cyanobacterial F1-ATPase reveals a suppression mechanism of the Î³ subunit on ATP hydrolysis in phototrophs. Biochemical Journal, 2018, 475, 2925-2939.	1.7	13
40	Thioredoxin-like2/2-Cys peroxiredoxin redox cascade supports oxidative thiol modulation in chloroplasts. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8296-E8304.	3.3	101
41	Assessment of the flagellar redox potential in Chlamydomonas reinhardtii using a redox-sensitive fluorescent protein, Oba-Qc. Biochemical and Biophysical Research Communications, 2018, 503, 2083-2088.	1.0	5
42	The Absence of Thioredoxin m1 and Thioredoxin C in Anabaena sp. PCC 7120 Leads to Oxidative Stress. Plant and Cell Physiology, 2018, 59, 2432-2441.	1.5	7
43	Development of heme protein based oxygen sensing indicators. Scientific Reports, 2018, 8, 11849.	1.6	14
44	Ferredoxin/thioredoxin system plays an important role in the chloroplastic <scp>NADP</scp> status of Arabidopsis. Plant Journal, 2018, 95, 947-960.	2.8	44
45	Post-Translational Regulation of the Dicing Activities of Arabidopsis DICER-LIKE 3 and 4 by Inorganic Phosphate and the Redox State. Plant and Cell Physiology, 2017, 58, pcw226.	1.5	15
46	Distinct electron transfer from ferredoxinâ€“thioredoxin reductase to multiple thioredoxin isoforms in chloroplasts. Biochemical Journal, 2017, 474, 1347-1360.	1.7	54
47	A Î³-subunit point mutation in Chlamydomonas reinhardtii chloroplast F1Fo-ATP synthase confers tolerance to reactive oxygen species. Biochimica Et Biophysica Acta - Bioenergetics, 2017, 1858, 966-974.	0.5	13
48	Designing Synthetic Flexible Gene Regulation Networks Using RNA Devices in Cyanobacteria. ACS Synthetic Biology, 2017, 6, 55-61.	1.9	26
49	Expression of mammalian mitochondrial F1 -ATPase in Escherichia coli depends on two chaperone factors, AF1 and AF2. FEBS Open Bio, 2016, 6, 1267-1272.	1.0	5
50	Functional Significance of NADPH-Thioredoxin Reductase C in the Antioxidant Defense System of CyanobacteriumAnabaenasp. PCC 7120. Plant and Cell Physiology, 2016, 58, pcw182.	1.5	16
51	<i>Anabaena</i>sp. DyP-type peroxidase is a tetramer consisting of two asymmetric dimers. Proteins: Structure, Function and Bioinformatics, 2016, 84, 31-42.	1.5	14
52	Eyespot-dependent determination of the phototactic sign in <i>Chlamydomonas reinhardtii</i>. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5299-5304.	3.3	70
53	Two distinct redox cascades cooperatively regulate chloroplast functions and sustain plant viability. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3967-76.	3.3	119
54	Efficient Gene Induction and Endogenous Gene Repression Systems for the Filamentous Cyanobacterium<i>Anabaena</i>sp. PCC 7120. Plant and Cell Physiology, 2016, 57, 387-396.	1.5	24

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55	Adenine nucleotide-dependent and redox-independent control of mitochondrial malate dehydrogenase activity in Arabidopsis thaliana. Biochimica Et Biophysica Acta - Bioenergetics, 2016, 1857, 810-818.	0.5	40
56	Oxidation of a Cysteine Residue in Elongation Factor EF-Tu Reversibly Inhibits Translation in the Cyanobacterium Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2016, 291, 5860-5870.	1.6	41
57	Identification of OmpR-Family Response Regulators Interacting with Thioredoxin in the Cyanobacterium Synechocystis sp. PCC 6803. PLoS ONE, 2015, 10, e0119107.	1.1	14
58	Redox regulation of CF1-ATPase involves interplay between the Î³-subunit neck region and the turn region of the Î²DELSEED-loop. Biochimica Et Biophysica Acta - Bioenergetics, 2015, 1847, 441-450.	0.5	10
59	Redox sensor proteins for highly sensitive direct imaging of intracellular redox state. Biochemical and Biophysical Research Communications, 2015, 457, 242-248.	1.0	33
60	Thioredoxin Selectivity for Thiol-based Redox Regulation of Target Proteins in Chloroplasts. Journal of Biological Chemistry, 2015, 290, 14278-14288.	1.6	87
61	Oxidation of translation factor EF-G transiently retards the translational elongation cycle in<i>Escherichia coli</i>. Journal of Biochemistry, 2015, 158, 165-172.	0.9	14
62	Involvement of thioredoxin on the scaffold activity of NifU in heterocyst cells of the diazotrophic cyanobacteriumAnabaenasp. strain PCC 7120. Journal of Biochemistry, 2015, 158, 253-261.	0.9	9
63	Direct determination of the redox status of cysteine residues in proteins in vivo. Biochemical and Biophysical Research Communications, 2015, 456, 339-343.	1.0	8
64	Development of DNA-based maleimide compound for titration of thiols in a protein. Seibutsu Butsuri Kagaku, 2014, 58, 83-85.	0.1	0
65	Mitochondrial isocitrate dehydrogenase is inactivated upon oxidation and reactivated by thioredoxin-dependent reduction in Arabidopsis. Frontiers in Environmental Science, 2014, 2, .	1.5	32
66	Reversible control of F1-ATPase rotational motion using a photochromic ATP analog at the single molecule level. Biochemical and Biophysical Research Communications, 2014, 446, 358-363.	1.0	2
67	Distinct Redox Behaviors of Chloroplast Thiol Enzymes and their Relationships with Photosynthetic Electron Transport in Arabidopsis thaliana. Plant and Cell Physiology, 2014, 55, 1415-1425.	1.5	63
68	The Chloroplast ATP Synthase Features the Characteristic Redox Regulation Machinery. Antioxidants and Redox Signaling, 2013, 19, 1846-1854.	2.5	74
69	DNA-maleimide: An improved maleimide compound for electrophoresis-based titration of reactive thiols in a specific protein. Biochimica Et Biophysica Acta - General Subjects, 2013, 1830, 3077-3081.	1.1	13
70	Redox Control of the Activity of Phosphoglycerate Kinase in Synechocystis sp. PCC6803. Plant and Cell Physiology, 2013, 54, 484-491.	1.5	37
71	ThioredoxinÂ<i>h</i> regulates calcium dependent protein kinases in plasma membranes. FEBS Journal, 2013, 280, 3220-3231.	2.2	27
72	A Single Amino Acid Alteration in PGR5 Confers Resistance to Antimycin A in Cyclic Electron Transport around PSI. Plant and Cell Physiology, 2013, 54, 1525-1534.	1.5	59

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73	Kinetic analysis of the interactions between plant thioredoxin and target proteins. Frontiers in Plant Science, 2013, 4, 508.	1.7	8
74	Systematic Exploration of Thioredoxin Target Proteins in Plant Mitochondria. Plant and Cell Physiology, 2013, 54, 875-892.	1.5	111
75	A Conformational Change of the Î³ Subunit Indirectly Regulates the Activity of Cyanobacterial F1-ATPase. Journal of Biological Chemistry, 2012, 287, 38695-38704.	1.6	10
76	Thiol Modulation of the Chloroplast ATP Synthase is Dependent on the Energization of Thylakoid Membranes. Plant and Cell Physiology, 2012, 53, 626-634.	1.5	44
77	Crystal structures of dyeâ€decolorizing peroxidase with ascorbic acid and 2,6â€dimethoxyphenol. FEBS Letters, 2012, 586, 4351-4356.	1.3	43
78	Elongation Factor G Is a Critical Target during Oxidative Damage to the Translation System of Escherichia coli*. Journal of Biological Chemistry, 2012, 287, 28697-28704.	1.6	20
79	Torque Generation and Utilization in Motor Enzyme F0F1-ATP Synthase. Journal of Biological Chemistry, 2012, 287, 1884-1891.	1.6	38
80	Redox Regulation of Carbonic Anhydrases via Thioredoxin in Chloroplast of the Marine Diatom Phaeodactylum tricornutum. Journal of Biological Chemistry, 2012, 287, 20689-20700.	1.6	37
81	The catalytic mechanism of dyeâ€decolorizing peroxidase DyP may require the swinging movement of an aspartic acid residue. FEBS Journal, 2011, 278, 2387-2394.	2.2	72
82	Regulation of F0F1-ATPase from Synechocystis sp. PCC 6803 by Î³ and âˆ Subunits Is Significant for Light/Dark Adaptation. Journal of Biological Chemistry, 2011, 286, 26595-26602.	1.6	30
83	Degradation of the synthetic dye amaranth by the fungus Bjerkandera adusta Dec 1: inference of the degradation pathway from an analysis of decolorized products. Biodegradation, 2011, 22, 1239-1245.	1.5	63
84	Characterization of the Relationship between ADP- and Ïµ-induced Inhibition in Cyanobacterial F1-ATPase. Journal of Biological Chemistry, 2011, 286, 13423-13429.	1.6	18
85	Redox Regulation of Rotation of the Cyanobacterial F1-ATPase Containing Thiol Regulation Switch. Journal of Biological Chemistry, 2011, 286, 9071-9078.	1.6	26
86	Knockdown of DAPIT (Diabetes-associated Protein in Insulin-sensitive Tissue) Results in Loss of ATP Synthase in Mitochondria. Journal of Biological Chemistry, 2011, 286, 20292-20296.	1.6	59
87	Structural and functional analysis of the intrinsic inhibitor subunit Ïµ of F1-ATPase from photosynthetic organisms. Biochemical Journal, 2010, 425, 85-98.	1.7	25
88	The PedR transcriptional regulator interacts with thioredoxin to connect photosynthesis with gene expression in cyanobacteria. Biochemical Journal, 2010, 431, 135-140.	1.7	34
89	Physiological Impact of Intrinsic ADP Inhibition of Cyanobacterial FoF1 Conferred by the Inherent Sequence Inserted into the Î³ Subunit. Plant and Cell Physiology, 2010, 51, 855-865.	1.5	34
90	CcdA Is a Thylakoid Membrane Protein Required for the Transfer of Reducing Equivalents from Stroma to Thylakoid Lumen in the Higher Plant Chloroplast. Antioxidants and Redox Signaling, 2010, 13, 1169-1176.	2.5	58

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91	Regulation of Translation by the Redox State of Elongation Factor G in the Cyanobacterium Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2009, 284, 18685-18691.	1.6	63
92	Roles of Thioredoxins in the Obligate Anaerobic Green Sulfur Photosynthetic Bacterium Chlorobaculum tepidum. Molecular Plant, 2009, 2, 336-343.	3.9	18
93	Identification of Thioredoxin Targeted Proteins Using Thioredoxin Single-Cysteine Mutant-Immobilized Resin. Methods in Molecular Biology, 2009, 479, 117-131.	0.4	24
94	Chapter 7 Physiological Impact of Thioredoxin- and Glutaredoxin-Mediated Redox Regulation in Cyanobacteria. Advances in Botanical Research, 2009, 52, 187-205.	0.5	6
95	Functional analysis of Arabidopsis thaliana isoforms of the Mg-chelatase CHLI subunit. Photochemical and Photobiological Sciences, 2008, 7, 1188-1195.	1.6	66
96	Binary Reducing Equivalent Pathways Using NADPH-Thioredoxin Reductase and Ferredoxin-Thioredoxin Reductase in the Cyanobacterium Synechocystis sp. Strain PCC 6803. Plant and Cell Physiology, 2008, 49, 11-18.	1.5	52
97	Molecular Processes of Inhibition and Stimulation of ATP Synthase Caused by the Phytotoxin Tentoxin. Journal of Biological Chemistry, 2008, 283, 24594-24599.	1.6	35
98	The Bottom Part of the Î³ Subunit of F1-ATPase is Important for Catalytic Activity. , 2008, , 601-604.		0
99	Thioredoxin Potential Target Proteins in Green Sulfur Bacterium Chlorobaculum tepidum. , 2008, , 631-634.		0
100	Functional Analysis of HCF164, a Thioredoxin-Like Protein in the Thylakoid Lumen. , 2008, , 929-932.		0
101	The CHLI1 Subunit of Arabidopsis thaliana Magnesium Chelatase Is a Target Protein of the Chloroplast Thioredoxin*. Journal of Biological Chemistry, 2007, 282, 19282-19291.	1.6	131
102	The Significance of Type II and PrxQ Peroxiredoxins for Antioxidative Stress Response in the Purple Bacterium Rhodobacter sphaeroides. Journal of Biological Chemistry, 2007, 282, 27792-27801.	1.6	24
103	In vitro reconstitution of monogalactosyldiacylglycerol (MGDG) synthase regulation by thioredoxin. FEBS Letters, 2006, 580, 4086-4090.	1.3	41
104	The regulator of the F1 motor: inhibition of rotation of cyanobacterial F1-ATPase by the É› subunit. EMBO Journal, 2006, 25, 4596-4604.	3.5	74
105	Towards a Functional Dissection of Thioredoxin Networks in Plant Cells. Photochemistry and Photobiology, 2006, 83, 145-51.	1.3	47
106	Thioredoxin-h1 Reduces and Reactivates the Oxidized Cytosolic Malate Dehydrogenase Dimer in Higher Plants*. Journal of Biological Chemistry, 2006, 281, 32065-32071.	1.6	56
107	HCF164 Receives Reducing Equivalents from Stromal Thioredoxin across the Thylakoid Membrane and Mediates Reduction of Target Proteins in the Thylakoid Lumen. Journal of Biological Chemistry, 2006, 281, 35039-35047.	1.6	133
108	Thioredoxin affinity chromatography: a useful method for further understanding the thioredoxin network. Journal of Experimental Botany, 2005, 56, 1463-1468.	2.4	65

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109	Anti-oxidative Stress System in Cyanobacteria. Journal of Biological Chemistry, 2005, 280, 840-846.	1.6	102
110	Complete Inhibition and Partial Re-activation of Single F1-ATPase Molecules by Tentoxin. Journal of Biological Chemistry, 2004, 279, 9685-9688.	1.6	7
111	A thermostable enzyme as an experimental platform to study properties of less stable homologues. Protein Engineering, Design and Selection, 2004, 17, 553-555.	1.0	1
112	VOZ; Isolation and Characterization of Novel Vascular Plant Transcription Factors with a One-Zinc Finger from Arabidopsis thaliana. Plant and Cell Physiology, 2004, 45, 845-854.	1.5	83
113	Inverse Regulation of Rotation of F1-ATPase by the Mutation at the Regulatory Region on the Î³ Subunit of Chloroplast ATP Synthase. Journal of Biological Chemistry, 2004, 279, 16272-16277.	1.6	23
114	Target Proteins of the Cytosolic Thioredoxins in Arabidopsis thaliana. Plant and Cell Physiology, 2004, 45, 18-27.	1.5	198
115	Two cAMP receptor proteins with different biochemical properties in the filamentous cyanobacteriumAnabaenasp. PCC 7120. FEBS Letters, 2004, 571, 154-160.	1.3	10
116	Significance of the Îµ subunit in the thiol modulation of chloroplast ATP synthase. Biochemical and Biophysical Research Communications, 2004, 318, 17-24.	1.0	16
117	Molecular evolution of the modulator of chloroplast ATP synthase: origin of the conformational change dependent regulation. FEBS Letters, 2003, 545, 71-75.	1.3	26
118	Conformational change of the chloroplast ATP synthase on the enzyme activation process detected by the trypsin sensitivity of the Î³ subunit. Biochemical and Biophysical Research Communications, 2003, 301, 311-316.	1.0	3
119	Chloroplast Cyclophilin Is a Target Protein of Thioredoxin. Journal of Biological Chemistry, 2003, 278, 31848-31852.	1.6	130
120	Substitution of a Single Amino Acid Switches the Tentoxin-resistant Thermophilic F1-ATPase into a Tentoxin-sensitive Enzyme. Journal of Biological Chemistry, 2002, 277, 20117-20119.	1.6	6
121	Molecular devices of chloroplast F1-ATP synthase for the regulation. Biochimica Et Biophysica Acta - Bioenergetics, 2002, 1555, 140-146.	0.5	40
122	A facilitated electron transfer of copperâ€“zinc superoxide dismutase (SOD) based on a cysteine-bridged SOD electrode. Biochimica Et Biophysica Acta - General Subjects, 2002, 1569, 151-158.	1.1	74
123	ATP synthase â€" a marvellous rotary engine of the cell. Nature Reviews Molecular Cell Biology, 2001, 2, 669-677.	16.1	823
124	Thioredoxin-Mediated Reductive Activation of a Protein Kinase for the Regulatory Phosphorylation of C4-form Phosphoenolpyruvate Carboxylase from Maize. Plant and Cell Physiology, 2001, 42, 1295-1302.	1.5	52
125	Synchronized Domain-opening Motion of GroEL Is Essential for Communication between the Two Rings. Journal of Biological Chemistry, 2001, 276, 11335-11338.	1.6	22
126	The Role of the Î²DELSEED Motif of F1-ATPase. Journal of Biological Chemistry, 2001, 276, 23969-23973.	1.6	70

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127	Redox Regulation of the Rotation of F1-ATP Synthase. Journal of Biological Chemistry, 2001, 276, 39505-39507.	1.6	63
128	Comprehensive survey of proteins targeted by chloroplast thioredoxin. Proceedings of the National Academy of Sciences of the United States of America, 2001, 98, 11224-11229.	3.3	362
129	Inverse regulation of F1-ATPase activity by a mutation at the regulatory region on the Î³ subunit of chloroplast ATP synthase. Biochemical Journal, 2000, 352, 783.	1.7	12
130	Movement of the Helical Domain of the Îµ Subunit Is Required for the Activation of Thermophilic F1-ATPase. Journal of Biological Chemistry, 2000, 275, 35746-35750.	1.6	45
131	ATPase Activity of a Highly Stable Î±3Î²3Î³ Subcomplex of Thermophilic F1 Can Be Regulated by the Introduced Regulatory Region of Î³ Subunit of Chloroplast F1. Journal of Biological Chemistry, 2000, 275, 12757-12762.	1.6	28
132	Identification and Characterization of a Novel cAMP Receptor Protein in the Cyanobacterium Synechocystis sp. PCC 6803. Journal of Biological Chemistry, 2000, 275, 6241-6245.	1.6	46
133	Inverse regulation of F1-ATPase activity by a mutation at the regulatory region on the Î³ subunit of chloroplast ATP synthase. Biochemical Journal, 2000, 352, 783-788.	1.7	22
134	Îµ Subunit, an Endogenous Inhibitor of Bacterial F1-ATPase, Also Inhibits F0F1-ATPase. Journal of Biological Chemistry, 1999, 274, 33991-33994.	1.6	83
135	The noncatalytic site-deficient alpha3beta3gamma subcomplex and FoF1-ATP synthase can continuously catalyse ATP hydrolysis when Pi is present. FEBS Journal, 1999, 262, 563-568.	0.2	15
136	The Î³ subunit in chloroplast F1-ATPase can rotate in a unidirectional and counter-clockwise manner. FEBS Letters, 1999, 463, 35-38.	1.3	68
137	Chloroplast thioredoxin mutants without active-site cysteines facilitate the reduction of the regulatory disulphide bridge on the Î³-subunit of chloroplast ATP synthase. Biochemical Journal, 1999, 341, 157.	1.7	16
138	Chloroplast thioredoxin mutants without active-site cysteines facilitate the reduction of the regulatory disulphide bridge on the Î³-subunit of chloroplast ATP synthase. Biochemical Journal, 1999, 341, 157-163.	1.7	38
139	The Î² subunit of chloroplast ATP synthase (CF0CF1-ATPase) is phosphorylated by casein kinase II. IUBMB Life, 1998, 46, 99-105.	1.5	30
140	ATP Synthesis by F0F1-ATP Synthase Independent of Noncatalytic Nucleotide Binding Sites and Insensitive to Azide Inhibition. Journal of Biological Chemistry, 1998, 273, 865-870.	1.6	69
141	The Formation or the Reduction of a Disulfide Bridge on the Î³ Subunit of Chloroplast ATP Synthase Affects the Inhibitory Effect of the Îµ Subunit. Journal of Biological Chemistry, 1998, 273, 15901-15905.	1.6	23
142	Thermophilic F1-ATPase Is Activated without Dissociation of an Endogenous Inhibitor, Îµ Subunit. Journal of Biological Chemistry, 1997, 272, 24906-24912.	1.6	66
143	The Regulatory Functions of the gamma and e Subunits from Chloroplast CF1 are Transferred to the Core Complex, alpha3beta3, from Thermophilic Bacterial F1. FEBS Journal, 1997, 247, 1158-1165.	0.2	33
144	Structural Asymmetry of F1-ATPase Caused by the Î³ Subunit Generates a High Affinity Nucleotide Binding Site. Journal of Biological Chemistry, 1996, 271, 2433-2438.	1.6	71

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145	The Heterogeneous Interaction of Substoichiometric TNP-ATP and F1 -ATPase from Escherichia coli. Journal of Biochemistry, 1996, 120, 940-945.	0.9	4
146	Catalytic Activities of Î±3Î²3Î³ Complexes of F1-ATPase with 1, 2, or 3 Incompetent Catalytic Sites. Journal of Biological Chemistry, 1996, 271, 18128-18133.	1.6	21
147	Asymmetry of the Three Catalytic Sites on Î² Subunits of TF1 from a Thermophilic Bacillus Strain PS31. Journal of Biochemistry, 1994, 115, 497-501.	0.9	12
148	Catalytic cooperativity of beef heart mitochondrial F1-ATPase revealed by using 2â€²,3â€²-O-(2,4,6-trinitrophenyl)-ATP as a substrate; an indication of mutually activating catalytic sites. Biochimica Et Biophysica Acta - Bioenergetics, 1994, 1188, 108-116.	0.5	6
149	AT(D)PMg-induced dissociation of the Î±3 Î²3 complex of the F1 -ATPase from a thermophilic Bacillus PS3 into Î±1 Î²1 heterodimers is prevented by mutation Î²(Y341C). FEBS Letters, 1993, 321, 46-50.	1.3	3
150	Effect of Covalent Binding of a Derivative of 2', 3'-O-(2, 4, 6-Trinitrophenyl).ADP to the Tight Binding Site of CF1 on the Enzyme Activity1. Journal of Biochemistry, 1993, 114, 324-328.	0.9	8
151	Magnesium Regulates Both the Nucleotide Binding and the Enzyme Activity of Isolated Chloroplast Coupling Factor 11. Journal of Biochemistry, 1993, 114, 808-812.	0.9	10
152	Single site hydrolysis of 2',3'-O-(2,4,6-trinitrophenyl)-ATP by the F1-ATPase from thermophilic bacterium PS3 is accelerated by the chase-addition of excess ATP. Journal of Biological Chemistry, 1992, 267, 4551-6.	1.6	41
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