

Haruto Ishikawa

List of Publications by Year in descending order

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40
papers

1,347
citations

430874

18
h-index

345221

36
g-index

40
all docs

40
docs citations

40
times ranked

1330
citing authors

#	ARTICLE	IF	CITATIONS
1	Identification of the ubiquitinâ€“protein ligase that recognizes oxidized IRP2. <i>Nature Cell Biology</i> , 2003, 5, 336-340.	10.3	176
2	Involvement of Heme Regulatory Motif in Heme-Mediated Ubiquitination and Degradation of IRP2. <i>Molecular Cell</i> , 2005, 19, 171-181.	9.7	135
3	Direct observation of fast protein conformational switching. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 8619-8624.	7.1	125
4	Probing dynamics of complex molecular systems with ultrafast 2D IR vibrational echo spectroscopy. <i>Physical Chemistry Chemical Physics</i> , 2007, 9, 1533.	2.8	93
5	Substrate binding and protein conformational dynamics measured by 2D-IR vibrational echo spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 2637-2642.	7.1	85
6	Neuroglobin dynamics observed with ultrafast 2D-IR vibrational echo spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 16116-16121.	7.1	71
7	Identification of Histidine 77 as the Axial Heme Ligand of Carbonmonoxy CooA by Picosecond Time-Resolved Resonance Raman Spectroscopy. <i>Biochemistry</i> , 2000, 39, 12747-12752.	2.5	65
8	Disulfide bond influence on protein structural dynamics probed with 2D-IR vibrational echo spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 19309-19314.	7.1	61
9	Observing Vibrational Energy Flow in a Protein with the Spatial Resolution of a Single Amino Acid Residue. <i>Journal of Physical Chemistry Letters</i> , 2014, 5, 3269-3273.	4.6	53
10	Heme Environmental Structure of CooA Is Modulated by the Target DNA Binding. <i>Journal of Biological Chemistry</i> , 1998, 273, 19988-19992.	3.4	50
11	Binding of CO at the Pro2 Side Is Crucial for the Activation of CO-sensing Transcriptional Activator CooA. <i>Journal of Biological Chemistry</i> , 2001, 276, 11473-11476.	3.4	50
12	Iron Hemiporphycene as a Functional Prosthetic Group for Myoglobin. <i>Inorganic Chemistry</i> , 2003, 42, 1456-1461.	4.0	38
13	Unusual Heme Binding in the Bacterial Iron Response Regulator Protein: Spectral Characterization of Heme Binding to the Heme Regulatory Motif. <i>Biochemistry</i> , 2011, 50, 1016-1022.	2.5	38
14	Ligand Migration in Human Myoglobin: Steric Effects of Isoleucine 107(G8) on O ₂ and CO Binding. <i>Biophysical Journal</i> , 2001, 80, 1507-1517.	0.5	32
15	Structural basis for oxygen sensing and signal transduction of the heme-based sensor protein Aer2 from <i>Pseudomonas aeruginosa</i> . <i>Chemical Communications</i> , 2012, 48, 6523.	4.1	29
16	Identification of Essential Histidine Residues Involved in Heme Binding and Hemozoin Formation in Heme Detoxification Protein from <i>Plasmodium falciparum</i> . <i>Scientific Reports</i> , 2015, 4, 6137.	3.3	22
17	Identification of Crucial Histidines for Heme Binding in the N-terminal Domain of the Heme-regulated eIF2Î± Kinase. <i>Journal of Biological Chemistry</i> , 2004, 279, 6778-6782.	3.4	20
18	Heme-binding properties of heme detoxification protein from <i>Plasmodium falciparum</i> . <i>Biochemical and Biophysical Research Communications</i> , 2013, 439, 477-480.	2.1	20

#	ARTICLE	IF	CITATIONS
19	Intersubunit Communication via Changes in Hemoglobin Quaternary Structures Revealed by Time-Resolved Resonance Raman Spectroscopy: Direct Observation of the Perutz Mechanism. <i>Journal of Physical Chemistry B</i> , 2013, 117, 12461-12468.	2.6	20
20	Protein Dynamics of Isolated Chains of Recombinant Human Hemoglobin Elucidated by Time-Resolved Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2012, 116, 1992-1998.	2.6	18
21	NO-Induced Activation Mechanism of the Heme-Regulated eIF2 γ Kinase. <i>Journal of the American Chemical Society</i> , 2002, 124, 13696-13697.	13.7	15
22	Structural dynamics of proximal heme pocket in HemAT-Bs associated with oxygen dissociation. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2012, 1824, 866-872.	2.3	13
23	Ultraviolet Resonance Raman Observations of the Structural Dynamics of Rhizobial Oxygen Sensor FixL on Ligand Recognition. <i>Journal of Physical Chemistry B</i> , 2013, 117, 15786-15791.	2.6	13
24	Redox-Dependent Dynamics in Heme-Bound Bacterial Iron Response Regulator (Irr) Protein. <i>Biochemistry</i> , 2016, 55, 4047-4054.	2.5	12
25	Potent Antimalarial Activity of Two Arenes Linked with Triamine Designed To Have Multiple Interactions with Heme. <i>ACS Medicinal Chemistry Letters</i> , 2018, 9, 980-985.	2.8	11
26	Time-Resolved Hole-Burning Study on Myoglobin: Fluctuation of Restricted Water within Distal Pocket. <i>Biophysical Journal</i> , 2001, 80, 1013-1023.	0.5	9
27	Regulatory Implications of Structural Changes in Tyr201 of the Oxygen Sensor Protein FixL. <i>Biochemistry</i> , 2016, 55, 4027-4035.	2.5	9
28	Redox-dependent axial ligand replacement and its functional significance in heme-bound iron regulatory proteins. <i>Journal of Inorganic Biochemistry</i> , 2018, 182, 238-248.	3.5	9
29	Effect of the N-terminal residues on the quaternary dynamics of human adult hemoglobin. <i>Chemical Physics</i> , 2016, 469-470, 31-37.	1.9	8
30	Carbon monoxide binding properties of domain-swapped dimeric myoglobin. <i>Journal of Biological Inorganic Chemistry</i> , 2015, 20, 523-530.	2.6	7
31	A Study of the Dynamics of the Heme Pocket and C-helix in CooA upon CO Dissociation Using Time-Resolved Visible and UV Resonance Raman Spectroscopy. <i>Journal of Physical Chemistry B</i> , 2016, 120, 7836-7843.	2.6	7
32	Force detection of high-frequency electron paramagnetic resonance spectroscopy of microliter solution sample. <i>Applied Physics Letters</i> , 2018, 113, .	3.3	7
33	Tertiary dynamics of human adult hemoglobin fixed in R and T quaternary structures. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 3363-3372.	2.8	6
34	Regulatory Switching by Concerted Motions on the Microsecond Time Scale of the Oxygen Sensor Protein FixL. <i>Journal of Physical Chemistry B</i> , 2021, 125, 6847-6856.	2.6	6
35	Identification, Expression, and Assay of an Oxidation-Specific Ubiquitin Ligase, HOIL-1. <i>Methods in Enzymology</i> , 2005, 398, 256-271.	1.0	5
36	Unique Electronic Structures of the Highly Ruffled Hemes in Heme-Degrading Enzymes of <i>Staphylococcus aureus</i> , IsdG and IsdI, by Resonance Raman and Electron Paramagnetic Resonance Spectroscopies. <i>Biochemistry</i> , 2020, 59, 3918-3928.	2.5	5

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37	Steric effects of isoleucine 107 on heme reorientation reaction in human myoglobin. Biochemical and Biophysical Research Communications, 2004, 324, 1095-1100.	2.1	4
38	1P-102 Fast protein conformational switching observed with 2D-IR vibrational echo(Invited Talk for) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.1	0
39	Protein Dynamics Observed with Ultrafast 2D-IR Vibrational Echo. Seibutsu Butsuri, 2009, 49, 194-195.	0.1	0
40	Vibrational Energy Flow in Hemeproteins. Springer Proceedings in Physics, 2015, , 532-534.	0.2	0