

Tetsunari Kimura

List of Publications by Year in descending order

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42
papers

2,455
citations

304743

22
h-index

315739

38
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43
all docs

43
docs citations

43
times ranked

2863
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. <i>Nature</i> , 2017, 543, 131-135.	27.8	515
2	A three-dimensional movie of structural changes in bacteriorhodopsin. <i>Science</i> , 2016, 354, 1552-1557.	12.6	350
3	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. <i>Science</i> , 2019, 366, 334-338.	12.6	248
4	Conformational landscape of cytochrome c folding studied by microsecond-resolved small-angle x-ray scattering. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 1329-1334.	7.1	244
5	Collapse and search dynamics of apomyoglobin folding revealed by submillisecond observations of Å-helical content and compactness. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2004, 101, 1171-1176.	7.1	150
6	Specific collapse followed by slow hydrogen-bond formation of Å-sheet in the folding of single-chain monellin. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 2748-2753.	7.1	91
7	Capturing an initial intermediate during the P450 _{nor} enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. <i>Nature Communications</i> , 2017, 8, 1585.	12.8	74
8	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. <i>Nature Communications</i> , 2016, 7, 12314.	12.8	71
9	A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. <i>Science Advances</i> , 2017, 3, e1603042.	10.3	68
10	Time-resolved Small-angle X-ray Scattering Investigation of the Folding Dynamics of Heme Oxygenase: Implication of the Scaling Relationship for the Submillisecond Intermediates of Protein Folding. <i>Journal of Molecular Biology</i> , 2006, 357, 997-1008.	4.2	55
11	Direct Observation of the Multistep Helix Formation of Poly-l-glutamic Acids. <i>Journal of the American Chemical Society</i> , 2002, 124, 11596-11597.	13.7	50
12	Specifically Collapsed Intermediate in the Early Stage of the Folding of Ribonuclease A. <i>Journal of Molecular Biology</i> , 2005, 350, 349-362.	4.2	43
13	Time-Resolved Small-Angle X-ray Scattering Study of the Folding Dynamics of Barnase. <i>Journal of Molecular Biology</i> , 2011, 405, 1284-1294.	4.2	43
14	Time-resolved serial femtosecond crystallography reveals early structural changes in channelrhodopsin. <i>ELife</i> , 2021, 10, .	6.0	41
15	Dehydration of main-chain amides in the final folding step of single-chain monellin revealed by time-resolved infrared spectroscopy. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 13391-13396.	7.1	38
16	The Impact of the Polymer Chain Length on the Catalytic Activity of Poly(N-vinyl-2-pyrrolidone)-supported Gold Nanoclusters. <i>Scientific Reports</i> , 2017, 7, 9579.	3.3	37
17	Chimeras of Channelrhodopsin-1 and -2 from <i>Chlamydomonas reinhardtii</i> Exhibit Distinctive Light-induced Structural Changes from Channelrhodopsin-2. <i>Journal of Biological Chemistry</i> , 2015, 290, 11623-11634.	3.4	31
18	Site-specific collapse dynamics guide the formation of the cytochrome c' four-helix bundle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 117-122.	7.1	30

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19	Direct visualization reveals dynamics of a transient intermediate during protein assembly. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 6450-6455.	7.1	29
20	Nanosecond pump-probe device for time-resolved serial femtosecond crystallography developed at SACLA. Journal of Synchrotron Radiation, 2017, 24, 1086-1091.	2.4	28
21	Dynamics of Dangling Bonds of Water Molecules in <i>pharaonis</i> Halorhodopsin during Chloride Ion Transportation. Journal of Physical Chemistry Letters, 2012, 3, 2964-2969.	4.6	26
22	New insights into metal ion-crown ether complexes revealed by SEIRA spectroscopy. New Journal of Chemistry, 2015, 39, 8673-8680.	2.8	25
23	Capturing structural changes of the S ₁ to S ₂ transition of photosystem II using time-resolved serial femtosecond crystallography. IUCr, 2021, 8, 431-443.	2.2	24
24	Short-lived intermediate in N ₂ O generation by P450 NO reductase captured by time-resolved IR spectroscopy and XFEL crystallography. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	21
25	Distortion of the amide-I and -II bands of an α -helical membrane protein, <i>pharaonis</i> halorhodopsin, depends on thickness of gold films utilized for surface-enhanced infrared absorption spectroscopy. Chemical Physics, 2013, 419, 8-16.	1.9	19
26	Folding energy landscape of cytochrome <i>cb</i> 562. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 7834-7839.	7.1	17
27	Timing of NO Binding and Protonation in the Catalytic Reaction of Bacterial Nitric Oxide Reductase as Established by Time-Resolved Spectroscopy. Bulletin of the Chemical Society of Japan, 2020, 93, 825-833.	3.2	15
28	Dehydration in the Folding of Reduced Cytochrome c Revealed by the Electron-Transfer-Triggered Folding under High Pressure. Journal of the American Chemical Society, 2006, 128, 670-671.	13.7	14
29	Development of a rapid Buffer-exchange system for time-resolved ATR-FTIR spectroscopy with the step-scan mode. Biophysics (Nagoya-shi, Japan), 2013, 9, 123-129.	0.4	11
30	Probing the cytochrome c folding landscape. Journal of Inorganic Biochemistry, 2007, 101, 1768-1775.	3.5	10
31	Ultraprecision cutting of single-crystal calcium fluoride for fabricating micro flow cells. Journal of Advanced Mechanical Design, Systems and Manufacturing, 2018, 12, JAMDSM0021-JAMDSM0021.	0.7	9
32	A Study of the Dynamics of the Heme Pocket and C-helix in CoxA upon CO Dissociation Using Time-Resolved Visible and UV Resonance Raman Spectroscopy. Journal of Physical Chemistry B, 2016, 120, 7836-7843.	2.6	7
33	Formation of host-guest complexes on gold surface investigated by surface-enhanced IR absorption spectroscopy. Chemical Physics Letters, 2014, 592, 90-95.	2.6	6
34	Vibrational and Molecular Properties of Mg ²⁺ Binding and Ion Selectivity in the Magnesium Channel MgtE. Journal of Physical Chemistry B, 2018, 122, 9681-9696.	2.6	5
35	A nearly on-axis spectroscopic system for simultaneously measuring UV-visible absorption and X-ray diffraction in the SPring-8 structural genomics beamline. Journal of Synchrotron Radiation, 2016, 23, 334-338.	2.4	4
36	Direct measurements of ferric reductase activity of human 101F6 and its enhancement upon reconstitution into phospholipid bilayer nanodisc. Biochemistry and Biophysics Reports, 2020, 21, 100730.	1.3	4

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37	Functional Assembly of <i>Caenorhabditis elegans</i> Cytochrome b-2 (Cecytb-2) into Phospholipid Bilayer Nanodisc with Enhanced Iron Reductase Activity. <i>Biomolecules</i> , 2021, 11, 96.	4.0	1
38	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2016, 72, s41-s42.	0.1	1
39	S3f1-4 Generality of Initial Collapse Demonstrated by Scaling Relationship for Submillisecond Intermediates of Protein Folding(S3-f1: "Hydration Effects on Structure and Thermodynamics of) Tj ETQq1 1 0.784314 rgBT /@verlock	0.784314	0
40	Molecular Mechanism of the Catalytic Reaction of no Reductase Revealed by Novel Time-Resolved Visible/IR Absorption Spectrometers with Microfluidic Device. <i>Biophysical Journal</i> , 2016, 110, 548a.	0.5	0
41	Role of Zinc Oxide Nanoparticles Synthesized by Fenugreek Seeds Extract as Anticancer Agent: In Vitro and In Vivo Studies. <i>Anti-Cancer Agents in Medicinal Chemistry</i> , 2021, 21, .	1.7	0
42	Watching Dynamical Events in Protein Folding in the Time Domain from Submilliseconds to Seconds: Continuous-Flow Rapid-Mixing Infrared Spectroscopy. <i>Biological and Medical Physics Series</i> , 2012, , 91-115.	0.4	0