

Tetsunari Kimura

List of Publications by Year in descending order

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papers

2,455
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304368

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docs citations

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times ranked

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#	ARTICLE	IF	CITATIONS
1	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.	1.8	1
2	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, .	0.9	0
3	Time-resolved serial femtosecond crystallography reveals early structural changes in channelrhodopsin. <i>ELife</i> , 2021, 10, .	2.8	41
4	Capturing structural changes of the S ₁ to S ₂ transition of photosystem II using time-resolved serial femtosecond crystallography. <i>IUCr</i> , 2021, 8, 431-443.	1.0	24
5	Short-lived intermediate in N ₂ O generation by P450 NO reductase captured by time-resolved IR spectroscopy and XFEL crystallography. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	21
6	Timing of NO Binding and Protonation in the Catalytic Reaction of Bacterial Nitric Oxide Reductase as Established by Time-Resolved Spectroscopy. <i>Bulletin of the Chemical Society of Japan</i> , 2020, 93, 825-833.	2.0	15
7	Direct measurements of ferric reductase activity of human 101F6 and its enhancement upon reconstitution into phospholipid bilayer nanodisc. <i>Biochemistry and Biophysics Reports</i> , 2020, 21, 100730.	0.7	4
8	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.	6.0	248
9	Ultraprecision cutting of single-crystal calcium fluoride for fabricating micro flow cells. <i>Journal of Advanced Mechanical Design, Systems and Manufacturing</i> , 2018, 12, JAMDSM0021-JAMDSM0021.	0.3	9
10	Vibrational and Molecular Properties of Mg ²⁺ Binding and Ion Selectivity in the Magnesium Channel MgtE. <i>Journal of Physical Chemistry B</i> , 2018, 122, 9681-9696.	1.2	5
11	Light-induced structural changes and the site of O=O bond formation in PSII caught by XFEL. <i>Nature</i> , 2017, 543, 131-135.	13.7	515
12	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.	1.6	37
13	A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. <i>Science Advances</i> , 2017, 3, e1603042.	4.7	68
14	Capturing an initial intermediate during the P450nor enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. <i>Nature Communications</i> , 2017, 8, 1585.	5.8	74
15	Nanosecond pump-probe device for time-resolved serial femtosecond crystallography developed at SACLA. <i>Journal of Synchrotron Radiation</i> , 2017, 24, 1086-1091.	1.0	28
16	A nearly on-axis spectroscopic system for simultaneously measuring UV-visible absorption and X-ray diffraction in the SPring-8 structural genomics beamline. <i>Journal of Synchrotron Radiation</i> , 2016, 23, 334-338.	1.0	4
17	A three-dimensional movie of structural changes in bacteriorhodopsin. <i>Science</i> , 2016, 354, 1552-1557.	6.0	350
18	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. <i>Nature Communications</i> , 2016, 7, 12314.	5.8	71

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19	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.	1.2	7
20	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.	0.2	0
21	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.	0.0	1
22	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.	1.6	31
23	New insights into metal ion-crown ether complexes revealed by SEIRA spectroscopy. <i>New Journal of Chemistry</i> , 2015, 39, 8673-8680.	1.4	25
24	Formation of host-guest complexes on gold surface investigated by surface-enhanced IR absorption spectroscopy. <i>Chemical Physics Letters</i> , 2014, 592, 90-95.	1.2	6
25	Distortion of the amide-I and -II bands of an α -helical membrane protein, pharaonis halorhodopsin, depends on thickness of gold films utilized for surface-enhanced infrared absorption spectroscopy. <i>Chemical Physics</i> , 2013, 419, 8-16.	0.9	19
26	Development of a rapid Buffer-exchange system for time-resolved ATR-FTIR spectroscopy with the step-scan mode. <i>Biophysics (Nagoya-shi, Japan)</i> , 2013, 9, 123-129.	0.4	11
27	Dynamics of Dangling Bonds of Water Molecules in <i>pharaonis</i> Halorhodopsin during Chloride Ion Transportation. <i>Journal of Physical Chemistry Letters</i> , 2012, 3, 2964-2969.	2.1	26
28	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.	0.3	0
29	Time-Resolved Small-Angle X-ray Scattering Study of the Folding Dynamics of Barnase. <i>Journal of Molecular Biology</i> , 2011, 405, 1284-1294.	2.0	43
30	Direct visualization reveals dynamics of a transient intermediate during protein assembly. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011, 108, 6450-6455.	3.3	29
31	Folding energy landscape of cytochrome <i>cb</i> ₅₆₂ . <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 7834-7839.	3.3	17
32	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.	3.3	38
33	Site-specific collapse dynamics guide the formation of the cytochrome <i>c'</i> four-helix bundle. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 117-122.	3.3	30
34	Probing the cytochrome <i>c</i> ² folding landscape. <i>Journal of Inorganic Biochemistry</i> , 2007, 101, 1768-1775.	1.5	10
35	Dehydration in the Folding of Reduced Cytochromec Revealed by the Electron-Transfer-Triggered Folding under High Pressure. <i>Journal of the American Chemical Society</i> , 2006, 128, 670-671.	6.6	14
36	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.	2.0	55

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37	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 /Overlock 1	3.3	91
38	Specific collapse followed by slow hydrogen-bond formation of β -sheet in the folding of single-chain monellin. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 2748-2753.	3.3	91
39	Specifically Collapsed Intermediate in the Early Stage of the Folding of Ribonuclease A. Journal of Molecular Biology, 2005, 350, 349-362.	2.0	43
40	Collapse and search dynamics of apomyoglobin folding revealed by submillisecond observations of β -helical content and compactness. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 1171-1176.	3.3	150
41	Conformational landscape of cytochrome c folding studied by microsecond-resolved small-angle x-ray scattering. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1329-1334.	3.3	244
42	Direct Observation of the Multistep Helix Formation of Poly-L-glutamic Acids. Journal of the American Chemical Society, 2002, 124, 11596-11597.	6.6	50