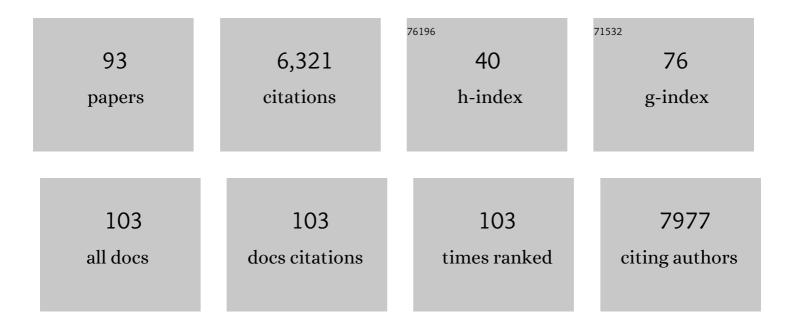
## Kunio Hirata

List of Publications by Year in descending order

Source: https://exaly.com/author-pdf/3109593/publications.pdf Version: 2024-02-01



Κιινίο Ηιρατά

#	Article	IF	CITATIONS
1	Native structure of photosystem II at 1.95ÂÃ resolution viewed by femtosecond X-ray pulses. Nature, 2015, 517, 99-103.	13.7	1,050
2	Crystal structure of the channelrhodopsin light-gated cation channel. Nature, 2012, 482, 369-374.	13.7	503
3	Molecular basis of ligand recognition and transport by glucose transporters. Nature, 2015, 526, 391-396.	13.7	305
4	An oxyl/oxo mechanism for oxygen-oxygen coupling in PSII revealed by an x-ray free-electron laser. Science, 2019, 366, 334-338.	6.0	248
5	Determination of damage-free crystal structure of an X-ray–sensitive protein using an XFEL. Nature Methods, 2014, 11, 734-736.	9.0	237
6	Structural basis of Sec-independent membrane protein insertion by YidC. Nature, 2014, 509, 516-520.	13.7	203
7	<i>KAMO</i> : towards automated data processing for microcrystals. Acta Crystallographica Section D: Structural Biology, 2018, 74, 441-449.	1.1	198
8	Crystal structures of the human adiponectin receptors. Nature, 2015, 520, 312-316.	13.7	176
9	Polymerization of Phenylacetylene by Rhodium Complexes within a Discrete Space of apo-Ferritin. Journal of the American Chemical Society, 2009, 131, 6958-6960.	6.6	165
10	Determination of Damage-free Crystal Structure of an X-ray Sensitive Protein Using XFEL. Nihon Kessho Gakkaishi, 2015, 57, 122-128.	0.0	158
11	<i>ZOO</i> : an automatic data-collection system for high-throughput structure analysis in protein microcrystallography. Acta Crystallographica Section D: Structural Biology, 2019, 75, 138-150.	1.1	156
12	Structures of the 5-HT2A receptor in complex with the antipsychotics risperidone and zotepine. Nature Structural and Molecular Biology, 2019, 26, 121-128.	3.6	133
13	A peroxide bridge between Fe and Cu ions in the O <sub>2</sub> reduction site of fully oxidized cytochrome <i>c</i> oxidase could suppress the proton pump. Proceedings of the National Academy of Sciences of the United States of America, 2009, 106, 2165-2169.	3.3	132
14	Structural insights into ligand recognition by the lysophosphatidic acid receptor LPA6. Nature, 2017, 548, 356-360.	13.7	101
15	Process of Accumulation of Metal Ions on the Interior Surface of apo-Ferritin: Crystal Structures of a Series of apo-Ferritins Containing Variable Quantities of Pd(II) Ions. Journal of the American Chemical Society, 2009, 131, 5094-5100.	6.6	88
16	Ribosomal synthesis and de novo discovery of bioactive foldamer peptides containing cyclic Î <sup>2</sup> -amino acids. Nature Chemistry, 2020, 12, 1081-1088.	6.6	86
17	Structural basis for disruption of claudin assembly in tight junctions by an enterotoxin. Scientific Reports, 2016, 6, 33632.	1.6	85
18	Ligand binding to human prostaglandin E receptor EP4 at the lipid-bilayer interface. Nature Chemical Biology, 2019, 15, 18-26.	3.9	85

Kunio Hirata

#	Article	IF	CITATIONS
19	Mechanism of β <sub>2</sub> AR regulation by an intracellular positive allosteric modulator. Science, 2019, 364, 1283-1287.	6.0	82
20	Na+-mimicking ligands stabilize the inactive state of leukotriene B4 receptor BLT1. Nature Chemical Biology, 2018, 14, 262-269.	3.9	80
21	X-ray structures of endothelin ETB receptor bound to clinical antagonist bosentan and its analog. Nature Structural and Molecular Biology, 2017, 24, 758-764.	3.6	79
22	Atomistic design of microbial opsin-based blue-shifted optogenetics tools. Nature Communications, 2015, 6, 7177.	5.8	78
23	Capturing an initial intermediate during the P450nor enzymatic reaction using time-resolved XFEL crystallography and caged-substrate. Nature Communications, 2017, 8, 1585.	5.8	74
24	Structural Basis for the Counter-Transport Mechanism of a H <sup>+</sup> /Ca <sup>2+</sup> Exchanger. Science, 2013, 341, 168-172.	6.0	73
25	Achievement of protein micro-crystallography at SPring-8 beamline BL32XU. Journal of Physics: Conference Series, 2013, 425, 012002.	0.3	72
26	Crystal structure of a bacterial homologue of SWEET transporters. Cell Research, 2014, 24, 1486-1489.	5.7	71
27	Structural basis for xenobiotic extrusion by eukaryotic MATE transporter. Nature Communications, 2017, 8, 1633.	5.8	69
28	A nanosecond time-resolved XFEL analysis of structural changes associated with CO release from cytochrome c oxidase. Science Advances, 2017, 3, e1603042.	4.7	68
29	Binding pathway determines norepinephrine selectivity for the human β1AR over β2AR. Cell Research, 2021, 31, 569-579.	5.7	65
30	Dose dependence of radiation damage for protein crystals studied at various X-ray energies. Journal of Synchrotron Radiation, 2007, 14, 4-10.	1.0	64
31	Structure-guided development of selective M3 muscarinic acetylcholine receptor antagonists. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, 12046-12050.	3.3	64
32	Isoform-selective regulation of mammalian cryptochromes. Nature Chemical Biology, 2020, 16, 676-685.	3.9	61
33	Crystal structures of human ETB receptor provide mechanistic insight into receptor activation and partial activation. Nature Communications, 2018, 9, 4711.	5.8	60
34	Structural insights into the subtype-selective antagonist binding to the M2 muscarinic receptor. Nature Chemical Biology, 2018, 14, 1150-1158.	3.9	59
35	Crystal structure of the human angiotensin II type 2 receptor bound to an angiotensin II analog. Nature Structural and Molecular Biology, 2018, 25, 570-576.	3.6	58
36	Cell-free methods to produce structurally intact mammalian membrane proteins. Scientific Reports, 2016, 6, 30442.	1.6	56

Kunio Hirata

#	Article	IF	CITATIONS
37	Protein microcrystallography using synchrotron radiation. IUCrJ, 2017, 4, 529-539.	1.0	56
38	Structure of an antagonist-bound ghrelin receptor reveals possible ghrelin recognition mode. Nature Communications, 2020, 11, 4160.	5.8	55
39	Crystal Engineering of Self-Assembled Porous Protein Materials in Living Cells. ACS Nano, 2017, 11, 2410-2419.	7.3	53
40	An allosteric modulator binds to a conformational hub in the β2 adrenergic receptor. Nature Chemical Biology, 2020, 16, 749-755.	3.9	51
41	Crystal structure of the endogenous agonist-bound prostanoid receptor EP3. Nature Chemical Biology, 2019, 15, 8-10.	3.9	49
42	Crystal structure of the M <sub>5</sub> muscarinic acetylcholine receptor. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 26001-26007.	3.3	48
43	Structural Basis for Blocking Sugar Uptake into the Malaria Parasite Plasmodium falciparum. Cell, 2020, 183, 258-268.e12.	13.5	42
44	A magnetic anti-cancer compound for magnet-guided delivery and magnetic resonance imaging. Scientific Reports, 2015, 5, 9194.	1.6	40
45	The Crystal Structure of Angiotensin II Type 2 Receptor with Endogenous Peptide Hormone. Structure, 2020, 28, 418-425.e4.	1.6	40
46	Development of a dose-limiting data collection strategy for serial synchrotron rotation crystallography. Journal of Synchrotron Radiation, 2017, 24, 29-41.	1.0	39
47	Design of Enzymeâ€Encapsulated Protein Containers by In Vivo Crystal Engineering. Advanced Materials, 2015, 27, 7951-7956.	11.1	32
48	Endogenous agonist–bound S1PR3 structure reveals determinants of G protein–subtype bias. Science Advances, 2021, 7, .	4.7	31
49	Structural basis for promotion of duodenal iron absorption by enteric ferric reductase with ascorbate. Communications Biology, 2018, 1, 120.	2.0	30
50	An unprecedented dioxygen species revealed by serial femtosecond rotation crystallography in copper nitrite reductase. IUCrJ, 2018, 5, 22-31.	1.0	27
51	Redox-coupled structural changes in nitrite reductase revealed by serial femtosecond and microfocus crystallography. Journal of Biochemistry, 2016, 159, 527-538.	0.9	26
52	SPring-8 BL41XU, a high-flux macromolecular crystallography beamline. Journal of Synchrotron Radiation, 2013, 20, 910-913.	1.0	25
53	An unprecedented insight into the catalytic mechanism of copper nitrite reductase from atomic-resolution and damage-free structures. Science Advances, 2021, 7, .	4.7	25
54	Catalytically important damage-free structures of a copper nitrite reductase obtained by femtosecond X-ray laser and room-temperature neutron crystallography. IUCrJ, 2019, 6, 761-772.	1.0	24

KUNIO HIRATA

#	Article	IF	CITATIONS
55	Remote access and automation of SPring-8 MX beamlines. AIP Conference Proceedings, 2016, , .	0.3	23
56	<i>In-Cell</i> Engineering of Protein Crystals with Nanoporous Structures for Promoting Cascade Reactions. ACS Applied Nano Materials, 2021, 4, 1672-1681.	2.4	21
57	Short-lived intermediate in N <sub>2</sub> 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, .	3.3	21
58	Development of a shutterless continuous rotation method using an X-ray CMOS detector for protein crystallography. Journal of Applied Crystallography, 2009, 42, 1165-1175.	1.9	19
59	New micro-beam beamline at SPring-8, targeting at protein micro-crystallography. AIP Conference Proceedings, 2010, , .	0.3	18
60	XFEL Crystal Structures of Peroxidase Compound II. Angewandte Chemie - International Edition, 2021, 60, 14578-14585.	7.2	18
61	Molecular mechanism of agonism and inverse agonism in ghrelin receptor. Nature Communications, 2022, 13, 300.	5.8	18
62	Isoprenoid-chained lipid EROCOC17+4: a new matrix for membrane protein crystallization and a crystal delivery medium in serial femtosecond crystallography. Scientific Reports, 2020, 10, 19305.	1.6	16
63	Design optimization of highly accurate elliptical mirrors for hard-x-ray microfocusing probes at SPring-8. , 2009, , .		14
64	Expression, purification, crystallization, and preliminary X-ray crystallographic studies of the human adiponectin receptors, AdipoR1 and AdipoR2. Journal of Structural and Functional Genomics, 2015, 16, 11-23.	1.2	14
65	Design of an Inâ€Cell Protein Crystal for the Environmentally Responsive Construction of a Supramolecular Filament. Angewandte Chemie - International Edition, 2021, 60, 12341-12345.	7.2	13
66	Crystallization and preliminary X-ray diffraction analysis of YidC, a membrane-protein chaperone and insertase from <i>Bacillus halodurans</i> . Acta Crystallographica Section F, Structural Biology Communications, 2014, 70, 1056-1060.	0.4	11
67	Supramolecular protein cages constructed from a crystalline protein matrix. Chemical Communications, 2018, 54, 1988-1991.	2.2	10
68	Structural Biology with Microfocus Beamlines. Springer Protocols, 2016, , 241-273.	0.1	7
69	Guidelines for <i>de novo</i> phasing using multiple small-wedge data collection. Journal of Synchrotron Radiation, 2021, 28, 1284-1295.	1.0	7
70	Crystallization and X-ray diffraction analysis of a catalytic domain of hyperthermophilic chitinase fromPyrococcus furiosus. Acta Crystallographica Section F: Structural Biology Communications, 2006, 62, 791-793.	0.7	6
71	Present status of SPring-8 macromolecular crystallography beamlines. AIP Conference Proceedings, 2010, , .	0.3	6
72	Structure of in cell protein crystals containing organometallic complexes. Physical Chemistry Chemical Physics, 2018, 20, 2986-2989.	1.3	5

KUNIO HIRATA

#	Article	IF	CITATIONS
73	Computer-controlled liquid-nitrogen drizzling device for removing frost from cryopreserved crystals. Acta Crystallographica Section F, Structural Biology Communications, 2020, 76, 616-622.	0.4	5
74	Expression, purification and preliminary X-ray crystallographic analysis of cyanobacterial biliverdin reductase. Acta Crystallographica Section F: Structural Biology Communications, 2011, 67, 313-317.	0.7	4
75	The structure of an archaeal oligosaccharyltransferase provides insight into the strict exclusion of proline from the N-glycosylation sequon. Communications Biology, 2021, 4, 941.	2.0	4
76	The structure of NLRP9 reveals a unique Câ€ŧerminal region with putative regulatory function. FEBS Letters, 2022, 596, 876-885.	1.3	4
77	Fine-needle capillary mounting for protein microcrystals. Journal of Applied Crystallography, 2012, 45, 785-788.	1.9	3
78	Scaling of one-shot oscillation images with a reference data set. Journal of Synchrotron Radiation, 2004, 11, 60-63.	1.0	2
79	Radiation Damage of Protein Crystal in Various X-ray Energies. AIP Conference Proceedings, 2007, , .	0.3	1
80	S11.17 A peroxide bridge between the two metals in the dinuclear center of the fully oxidized cytochrome c oxidase. Biochimica Et Biophysica Acta - Bioenergetics, 2008, 1777, S69.	0.5	1
81	Crystallization and preliminary X-ray analysis of the stress-response PPM phosphatase RsbX fromBacillus subtilis. Acta Crystallographica Section F: Structural Biology Communications, 2009, 65, 1128-1130.	0.7	1
82	Determination of Radiation Damage-free Crystal Structure of Cytochrome <i>c</i> Oxidase Using XFEL. Seibutsu Butsuri, 2015, 55, 084-086.	0.0	1
83	Crystal structure of Tam41 cytidine diphosphate diacylglycerol synthase from a Firmicutes bacterium. Journal of Biochemistry, 2022, 171, 429-441.	0.9	1
84	2P026 Current Status of Public Beamlines for Protein Crystallography at SPring-8(29. Protein) Tj ETQq0 0 0 rgBT Butsuri, 2006, 46, S302.	Overlock 0.0	10 Tf 50 30 0
85	1P067 The micro-focus beamline to open the new field of protein micro-crystallography(Proteins-functions, methodology, and protein enigineering,Oral) Tj ETQq1 1 0.784314 rgB1	⊺∥ <b>@v</b> erloc	k 100 Tf 50 2
86	1P034 Structural Basis for the Counter-Transport Mechanism of a H^+/Ca^<2+> Exchanger(01B.) Tj ETQq0 0 0 rg	BT  Overlo	ock 10 Tf 50
87	Automated system for data collection and data processing using microcrystals. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s187-s187.	0.0	0
88	High-resolution native structure analyses of supramacromolecular complexes susceptible to radiation damage. Acta Crystallographica Section A: Foundations and Advances, 2015, 71, s15-s15.	0.0	0
89	Design of an Inâ€Cell Protein Crystal for the Environmentally Responsive Construction of a Supramolecular Filament. Angewandte Chemie, 2021, 133, 12449-12453.	1.6	0
90	XFEL Crystal Structures of Peroxidase Compound II. Angewandte Chemie, 2021, 133, 14699-14706.	1.6	0

#	Article	IF	CITATIONS
91	Data Collection Strategy in Protein Micro-crystallography at Synchrotron Facility. Seibutsu Butsuri, 2019, 59, 215-218.	0.0	Ο
92	Remodeling of the optics for a micro-focusing protein crystallography beamline at SPring-8. , 2019, , .		0
93	Macromolecular Crystallography at SPring-8. Nihon Kessho Gakkaishi, 2022, 64, 2-9.	0.0	Ο