Hideaki E Kato

List of Publications by Year
in descending order

44 papers	4,182 citations	279798 23 h-index	345221 36 g-index
47 all docs	47 docs citations	47 times ranked	5533 citing authors

#	Article	IF	Citations
1	Structural insights into Âµ-opioid receptor activation. Nature, 2015, 524, 315-321.	27.8	743
2	Crystal structure of the channelrhodopsin light-gated cation channel. Nature, 2012, 482, 369-374.	27.8	503
3	Cortical layerâ€"specific critical dynamics triggering perception. Science, 2019, 365, .	12.6	447
4	Structure of a Signaling Cannabinoid Receptor 1-G Protein Complex. Cell, 2019, 176, 448-458.e12.	28.9	323
5	Structure of the neurotensin receptor 1 in complex with Î²-arrestin 1. Nature, 2020, 579, 303-308.	27.8	260
6	Structural basis for the drug extrusion mechanism by a MATE multidrug transporter. Nature, 2013, 496, 247-251.	27.8	225
7	Structural basis for Na+ transport mechanism by a light-driven Na+ pump. Nature, 2015, 521, 48-53.	27.8	224
8	Conformational transitions of a neurotensin receptorÂ1â€"Gi1Âcomplex. Nature, 2019, 572, 80-85.	27.8	199
9	Structural basis for dynamic mechanism of proton-coupled symport by the peptide transporter POT. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 11343-11348.	7.1	197
10	Outward- and inward-facing structures of a putative bacterial transition-metal transporter with homology to ferroportin. Nature Communications, 2015, 6, 8545.	12.8	103
11	Structural insights into ligand recognition by the lysophosphatidic acid receptor LPA6. Nature, 2017, 548, 356-360.	27.8	101
12	Disruption of ATM in p53-null cells causes multiple functional abnormalities in cellular response to ionizing radiation. Oncogene, 1999, 18, 7002-7009.	5.9	100
13	Crystal structure of the natural anion-conducting channelrhodopsin GtACR1. Nature, 2018, 561, 343-348.	27.8	93
14	Atomistic design of microbial opsin-based blue-shifted optogenetics tools. Nature Communications, 2015, 6, 7177.	12.8	78
15	Structural basis for channel conduction in the pump-like channelrhodopsin ChRmine. Cell, 2022, 185, 672-689.e23.	28.9	72
16	Structural mechanisms of selectivity and gating in anion channelrhodopsins. Nature, 2018, 561, 349-354.	27.8	67
17	Water-Containing Hydrogen-Bonding Network in the Active Center of Channelrhodopsin. Journal of the American Chemical Society, 2014, 136, 3475-3482.	13.7	59
18	Effective Application of Bicelles for Conformational Analysis of G Protein-Coupled Receptors by Hydrogen/Deuterium Exchange Mass Spectrometry. Journal of the American Society for Mass Spectrometry, 2015, 26, 808-817.	2.8	50

#	Article	IF	Citations
19	Structural basis for dynamic mechanism of nitrate/nitrite antiport by NarK. Nature Communications, 2015, 6, 7097.	12.8	50
20	Mutant of a Light-Driven Sodium Ion Pump Can Transport Cesium Ions. Journal of Physical Chemistry Letters, 2016, 7, 51-55.	4.6	42
21	Molecular Dynamics of Channelrhodopsin at the Early Stages of Channel Opening. PLoS ONE, 2015, 10, e0131094.	2.5	33
22	Chimeras of Channelrhodopsin-1 and -2 from Chlamydomonas reinhardtii Exhibit Distinctive Light-induced Structural Changes from Channelrhodopsin-2. Journal of Biological Chemistry, 2015, 290, 11623-11634.	3.4	31
23	Role of Asn112 in a Light-Driven Sodium Ion-Pumping Rhodopsin. Biochemistry, 2016, 55, 5790-5797.	2.5	27
24	The lightâ€driven sodium ion pump: A new player in rhodopsin research. BioEssays, 2016, 38, 1274-1282.	2.5	23
25	Crystal structures of the TRIC trimeric intracellular cation channel orthologues. Cell Research, 2016, 26, 1288-1301.	12.0	21
26	Structural and spectral characterizations of C1C2 channelrhodopsin and its mutants by molecular simulations. Chemical Physics Letters, 2013, 556, 266-271.	2.6	18
27	Structural Properties of the Human Protease-Activated Receptor 1 Changing by a Strong Antagonist. Structure, 2018, 26, 829-838.e4.	3.3	13
28	Exciton Circular Dichroism in Channelrhodopsin. Journal of Physical Chemistry B, 2014, 118, 11873-11885.	2.6	12
29	Structureâ€"Function Relationship of Channelrhodopsins. Advances in Experimental Medicine and Biology, 2021, 1293, 35-53.	1.6	12
30	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.	0.8	11
31	Atypical structural snapshots of human cytomegalovirus GPCR interactions with host G proteins. Science Advances, 2022, 8, eabl5442.	10.3	11
32	Conformational Plasticity of Human Protease-Activated Receptor 1 upon Antagonist- and Agonist-Binding. Structure, 2019, 27, 1517-1526.e3.	3.3	8
33	Crystal structure of channelrhodopsin, a light-gated cation channel - all cations lead through the monomer -. Biophysics (Nagoya-shi, Japan), 2013, 9, 57-61.	0.4	7
34	Development of High Frequency Vestibulo-Ocular Responses to Active Head Shaking. Acta Oto-Laryngologica, 1995, 115, 265-267.	0.9	5
35	Structural Basis for Dynamic Mechanism of Proton-Coupled Symport by the Peptide Transporter POT. Seibutsu Butsuri, 2014, 54, 085-090.	0.1	1
36	A Clinical and Electroencephalographic Study on Anti-Epileptic Activity of Clonazepam.. Psychiatry and Clinical Neurosciences, 1977, 31, 183-194.	1.8	0

#	ARTICLE	IF	CITATIONS
37	1PT128 Crystal Structure of a light-gated cation channel, channeirhodopsin(The 50th Annual Meeting) Tj ETQq1 1 0.784314 rgBT /Over	0.1	0
38	2P109 Hydrogen-bonding network in the active center of a light-gated ion channel, channelrhodopsin(03. Membrane proteins,Poster). Seibutsu Butsuri, 2013, 53, S177.	0.1	0
39	Molecular Mechanisms of Membrane Channel and Transporter. Acta Crystallographica Section A: Foundations and Advances, 2014, 70, C38-C38.	0.1	0
40	1P109 Structural changes of channelrhodopsin under various cation conditions(03. Membrane) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Butsuri, 2014, 54, S159.	0.1	0
41	Structure-Functional Analysis of Channelrhodopsins. , 2015, , 31-45.		0
42	Structure Based Engineering of Blue-shifted Optogenetics Tools. Seibutsu Butsuri, 2017, 57, 196-199.	0.1	0
43	Crystal Structure of Channelrhodopsin, A Light-Gated Cation Channel. Nihon Kessho Gakkaishi, 2012, 54, 220-225.	0.0	0
44	Crystal Structure of Channelrhodopsin, a Light-Gated Cation Channel. Seibutsu Butsuri, 2013, 53, 246-249.	0.1	0