Uwe Weierstall

List of Publications by Year
in descending order

41	6,159	147801 31	265206 42
papers	citations	h-index	g-index

44	44	44	6257
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. Nature, 2015, 523, 561-567.	27.8	683
2	Lipidic cubic phase injector facilitates membrane protein serial femtosecond crystallography. Nature Communications, 2014, 5, 3309.	12.8	505
3	Serial Femtosecond Crystallography of G Proteinâ€“Coupled Receptors. Science, 2013, 342, 1521-1524.	12.6	424
4	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. Science, 2014, 346, 1242-1246.	12.6	418
5	Serial time-resolved crystallography of photosystem II using a femtosecond X-ray laser. Nature, 2014, 513, 261-265.	27.8	403
6	Natively Inhibited Trypanosoma brucei Cathepsin B Structure Determined by Using an X-ray Laser. Science, 2013, 339, 227-230.	12.6	393
7	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. Science, 2016, 352, 725-729.	12.6	348
8	Structure of the Angiotensin Receptor Revealed by Serial Femtosecond Crystallography. Cell, 2015, 161, 833-844.	28.9	315
9	Retinal isomerization in bacteriorhodopsin captured by a femtosecond x-ray laser. Science, 2018, 361, .	12.6	285
10	Lipidic cubic phase serial millisecond crystallography using synchrotron radiation. IUCrJ, 2015, 2, 168-176.	2.2	196
11	Structure of the full-length glucagon class B G-protein-coupled receptor. Nature, 2017, 546, 259-264.	27.8	179
12	Structural basis for selectivity and diversity in angiotensin II receptors. Nature, 2017, 544, 327-332.	27.8	174
13	Visualizing a protein quake with time-resolved X-ray scattering at a free-electron laser. Nature Methods, 2014, 11, 923-926.	19.0	173
14	Structural basis for bifunctional peptide recognition at human Î´-opioid receptor. Nature Structural and Molecular Biology, 2015, 22, 265-268.	8.2	151
15	Structural basis of ligand recognition at the human MT1 melatonin receptor. Nature, 2019, 569, 284-288.	27.8	140
16	A novel inert crystal delivery medium for serial femtosecond crystallography. IUCrJ, 2015, 2, 421-430.	2.2	123
17	Enzyme intermediates captured â€œon the flyâ€•by mix-and-inject serial crystallography. BMC Biology, 2018, 16, 59.	3.8	117
18	XFEL structures of the human MT2 melatonin receptor reveal the basis of subtype selectivity. Nature, 2019, 569, 289-292.	27.8	106

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19	Native phasing of x-ray free-electron laser data for a G proteinâ€“coupled receptor. Science Advances, 2016, 2, e1600292.	10.3	97
20	Liquid sample delivery techniques for serial femtosecond crystallography. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130337.	4.0	93
21	Structural enzymology using X-ray free electron lasers. Structural Dynamics, 2017, 4, 044003.	2.3	92
22	Double-flow focused liquid injector for efficient serial femtosecond crystallography. Scientific Reports, 2017, 7, 44628.	3.3	90
23	Structure of a photosynthetic reaction centre determined by serial femtosecond crystallography. Nature Communications, 2013, 4, 2911.	12.8	74
24	Lipidic cubic phase injector is a viable crystal delivery system for time-resolved serial crystallography. Nature Communications, 2016, 7, 12314.	12.8	71
25	Structure-based mechanism of cysteinyl leukotriene receptor inhibition by antiasthmatic drugs. Science Advances, 2019, 5, eaax2518.	10.3	71
26	Double-focusing mixing jet for XFEL study of chemical kinetics. Journal of Synchrotron Radiation, 2014, 21, 1364-1366.	2.4	68
27	Serial femtosecond crystallography of soluble proteins in lipidic cubic phase. IUCrJ, 2015, 2, 545-551.	2.2	61
28	Structural insights into the extracellular recognition of the human serotonin 2B receptor by an antibody. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 8223-8228.	7.1	54
29	Toward G protein-coupled receptor structure-based drug design using X-ray lasers. IUCrJ, 2019, 6, 1106-1119.	2.2	53
30	Early-stage dynamics of chloride ionâ€“pumping rhodopsin revealed by a femtosecond X-ray laser. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	41
31	Crystal structure of misoprostol bound to the labor inducer prostaglandin E2 receptor. Nature Chemical Biology, 2019, 15, 11-17.	8.0	32
32	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. Nature Communications, 2015, 6, 10140.	12.8	30
33	Segmented flow generator for serial crystallography at the European X-ray free electron laser. Nature Communications, 2020, 11, 4511.	12.8	27
34	Transmission Electron Diffraction at 200 eV and Damage Thresholds below the Carbon K Edge. Microscopy and Microanalysis, 2000, 6, 368-379.	0.4	14
35	Non-cryogenic structure of a chloride pump provides crucial clues to temperature-dependent channel transport efficiency. Journal of Biological Chemistry, 2019, 294, 794-804.	3.4	14
36	Serial femtosecond crystallography datasets from G protein-coupled receptors. Scientific Data, 2016, 3, 160057.	5.3	10

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37	Direct Structural and Chemical Characterization of the Photolytic Intermediates of Methylcobalamin Using Time-Resolved X-ray Absorption Spectroscopy. Journal of Physical Chemistry Letters, 2018, 9, 1542-1546.	4.6	10
38	Molecular basis for lipid recognition by the prostaglandin D₂receptor CRTH2. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	7
39	Expression, purification and crystallization of CTB-MPR, a candidate mucosal vaccine component against HIV-1. IUCrJ, 2014, 1, 305-317.	2.2	6
40	Transmission Electron Diffraction at 200 eV and Damage Thresholds below the Carbon K Edge. Microscopy and Microanalysis, 2000, 6, 368-379.	0.4	6
41	Supersaturation-controlled microcrystallization and visualization analysis for serial femtosecond crystallography. Scientific Reports, 2018, 8, 2541.	3.3	4