

Oleksandr Yefanov

List of Publications by Year in descending order

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52
papers

4,018
citations

186265
28
h-index

175258
52
g-index

57
all docs

57
docs citations

57
times ranked

4103
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. <i>Nature</i> , 2015, 523, 561-567.	27.8	683
2	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014, 346, 1242-1246.	12.6	418
3	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016, 352, 725-729.	12.6	348
4	Recent developments in <i>CrystFEL</i> . <i>Journal of Applied Crystallography</i> , 2016, 49, 680-689.	4.5	222
5	Room-temperature macromolecular serial crystallography using synchrotron radiation. <i>IUCr</i> , 2014, 1, 204-212.	2.2	221
6	Serial crystallography on <i>in vivo</i> grown microcrystals using synchrotron radiation. <i>IUCr</i> , 2014, 1, 87-94.	2.2	204
7	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	12.8	147
8	Enzyme intermediates captured “on the fly” by mix-and-inject serial crystallography. <i>BMC Biology</i> , 2018, 16, 59.	3.8	117
9	X-ray focusing with efficient high-NA multilayer Laue lenses. <i>Light: Science and Applications</i> , 2018, 7, 17162-17162.	16.6	114
10	Time-resolved serial femtosecond crystallography at the European XFEL. <i>Nature Methods</i> , 2020, 17, 73-78.	19.0	110
11	Ultracompact 3D microfluidics for time-resolved structural biology. <i>Nature Communications</i> , 2020, 11, 657.	12.8	106
12	Mix-and-diffuse serial synchrotron crystallography. <i>IUCr</i> , 2017, 4, 769-777.	2.2	98
13	Structural enzymology using X-ray free electron lasers. <i>Structural Dynamics</i> , 2017, 4, 044003.	2.3	92
14	Double-flow focused liquid injector for efficient serial femtosecond crystallography. <i>Scientific Reports</i> , 2017, 7, 44628.	3.3	90
15	High numerical aperture multilayer Laue lenses. <i>Scientific Reports</i> , 2015, 5, 9892.	3.3	89
16	<i>XGANDALF</i> – extended gradient descent algorithm for lattice finding. <i>Acta Crystallographica Section A: Foundations and Advances</i> , 2019, 75, 694-704.	0.1	80
17	Accurate determination of segmented X-ray detector geometry. <i>Optics Express</i> , 2015, 23, 28459.	3.4	69
18	Serial protein crystallography in an electron microscope. <i>Nature Communications</i> , 2020, 11, 996.	12.8	69

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19	Atomic structure of granulin determined from native nanocrystalline granulovirus using an X-ray free-electron laser. Proceedings of the National Academy of Sciences of the United States of America, 2017, 114, 2247-2252.	7.1	65
20	Rapid sample delivery for megahertz serial crystallography at X-ray FELs. IUCrJ, 2018, 5, 574-584.	2.2	52
21	X-ray laser diffraction for structure determination of the rhodopsin-arrestin complex. Scientific Data, 2016, 3, 160021.	5.3	51
22	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15.	9.3	48
23	Ultrafast structural changes within a photosynthetic reaction centre. Nature, 2021, 589, 310-314.	27.8	47
24	Observation of substrate diffusion and ligand binding in enzyme crystals using high-repetition-rate mix-and-inject serial crystallography. IUCrJ, 2021, 8, 878-895.	2.2	44
25	On-chip crystallization for serial crystallography experiments and on-chip ligand-binding studies. IUCrJ, 2019, 6, 714-728.	2.2	41
26	1 kHz fixed-target serial crystallography using a multilayer monochromator and an integrating pixel detector. IUCrJ, 2019, 6, 927-937.	2.2	35
27	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. Nature Communications, 2015, 6, 10140.	12.8	30
28	Mapping the continuous reciprocal space intensity distribution of X-ray serial crystallography. Philosophical Transactions of the Royal Society B: Biological Sciences, 2014, 369, 20130333.	4.0	29
29	Perspectives for imaging single protein molecules with the present design of the European XFEL. Structural Dynamics, 2015, 2, 041702.	2.3	29
30	<i>pinkIndexer</i> – a universal indexer for pink-beam X-ray and electron diffraction snapshots. Acta Crystallographica Section A: Foundations and Advances, 2020, 76, 121-131.	0.1	28
31	Structural Evolution of Colloidal Crystal Films in the Process of Melting Revealed by Bragg Peak Analysis. Langmuir, 2015, 31, 5274-5283.	3.5	27
32	FELIX: an algorithm for indexing multiple crystallites in X-ray free-electron laser snapshot diffraction images. Journal of Applied Crystallography, 2017, 50, 1075-1083.	4.5	27
33	Evaluation of serial crystallographic structure determination within megahertz pulse trains. Structural Dynamics, 2019, 6, 064702.	2.3	26
34	From Macrocystals to Microcrystals: A Strategy for Membrane Protein Serial Crystallography. Structure, 2017, 25, 1461-1468.e2.	3.3	21
35	Femtosecond X-ray diffraction from an aerosolized beam of protein nanocrystals. Journal of Applied Crystallography, 2018, 51, 133-139.	4.5	18
36	Synchronous RNA conformational changes trigger ordered phase transitions in crystals. Nature Communications, 2021, 12, 1762.	12.8	17

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37	Analysis of XFEL serial diffraction data from individual crystalline fibrils. IUCrJ, 2017, 4, 795-811.	2.2	16
38	Pink-beam serial femtosecond crystallography for accurate structure-factor determination at an X-ray free-electron laser. IUCrJ, 2021, 8, 905-920.	2.2	11
39	Ptychographic X-ray speckle tracking with multi-layer Laue lens systems. Journal of Applied Crystallography, 2020, 53, 927-936.	4.5	11
40	Data reduction for serial crystallography using a robust peak finder. Journal of Applied Crystallography, 2021, 54, 1360-1378.	4.5	10
41	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. IUCrJ, 2022, 9, 204-214.	2.2	9
42	Post-sample aperture for low background diffraction experiments at X-ray free-electron lasers. Journal of Synchrotron Radiation, 2017, 24, 1296-1298.	2.4	8
43	<i>XVis</i> : an educational open-source program for demonstration of reciprocal-space construction and diffraction principles. Journal of Applied Crystallography, 2008, 41, 647-652.	4.5	6
44	Accessible reciprocal-space region for non-coplanar Bragg and Laue geometries. Journal of Applied Crystallography, 2008, 41, 110-114.	4.5	5
45	Determination of the Exact Orientation of Single-Crystal X-ray Optics from Its Glitch Spectrum and Modeling of Glitches for an Arbitrary Configuration. Crystals, 2021, 11, 504.	2.2	5
46	Probing Dynamics in Colloidal Crystals with Pump-Probe Experiments at LCLS: Methodology and Analysis. Applied Sciences (Switzerland), 2017, 7, 519.	2.5	4
47	Predicting glitches of intensity in single-crystal diamond CRLs. AIP Conference Proceedings, 2020, , .	0.4	4
48	Suppressing Diffraction-Related Intensity Losses in Transmissive Single-Crystal X-ray Optics. Crystals, 2021, 11, 1561.	2.2	3
49	Atomic structure of granulin determined from native nanocrystalline granulovirus using an X-ray free-electron laser. Acta Crystallographica Section A: Foundations and Advances, 2017, 73, a292-a293.	0.1	2
50	Using diffraction losses of X-rays in a single crystal for determination of its lattice parameters as well as for monochromator calibration. Journal of Synchrotron Radiation, 2022, 29, 369-376.	2.4	2
51	Trace phase detection and strain characterization from serial X-ray free-electron laser crystallography of a Pr _{0.5} Ca _{0.5} MnO ₃ powder. Powder Diffraction, 2015, 30, S25-S30.	0.2	1
52	Robust ptychographic X-ray speckle tracking with multilayer Laue lenses. Optics Express, 2022, 30, 25450.	3.4	1