

# 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	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. IUCrJ, 2022, 9, 204-214.	2.2	9
2	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
3	Robust ptychographic X-ray speckle tracking with multilayer Laue lenses. Optics Express, 2022, 30, 25450.	3.4	1
4	Ultrafast structural changes within a photosynthetic reaction centre. Nature, 2021, 589, 310-314.	27.8	47
5	Synchronous RNA conformational changes trigger ordered phase transitions in crystals. Nature Communications, 2021, 12, 1762.	12.8	17
6	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
7	Data reduction for serial crystallography using a robust peak finder. Journal of Applied Crystallography, 2021, 54, 1360-1378.	4.5	10
8	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
9	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
10	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15.	9.3	48
11	Suppressing Diffraction-Related Intensity Losses in Transmissive Single-Crystal X-ray Optics. Crystals, 2021, 11, 1561.	2.2	3
12	Time-resolved serial femtosecond crystallography at the European XFEL. Nature Methods, 2020, 17, 73-78.	19.0	110
13	Serial protein crystallography in an electron microscope. Nature Communications, 2020, 11, 996.	12.8	69
14	Ultracompact 3D microfluidics for time-resolved structural biology. Nature Communications, 2020, 11, 657.	12.8	106
15	Predicting glitches of intensity in single-crystal diamond CRLs. AIP Conference Proceedings, 2020, , .	0.4	4
16	Ptychographic X-ray speckle tracking with multi-layer Laue lens systems. Journal of Applied Crystallography, 2020, 53, 927-936.	4.5	11
17	<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
18	Evaluation of serial crystallographic structure determination within megahertz pulse trains. Structural Dynamics, 2019, 6, 064702.	2.3	26

#	ARTICLE	IF	CITATIONS
19	On-chip crystallization for serial crystallography experiments and on-chip ligand-binding studies. IUCrJ, 2019, 6, 714-728.	2.2	41
20	1 kHz fixed-target serial crystallography using a multilayer monochromator and an integrating pixel detector. IUCrJ, 2019, 6, 927-937.	2.2	35
21	<i>XGANDALF</i> extended gradient descent algorithm for lattice finding. Acta Crystallographica Section A: Foundations and Advances, 2019, 75, 694-704.	0.1	80
22	Femtosecond X-ray diffraction from an aerosolized beam of protein nanocrystals. Journal of Applied Crystallography, 2018, 51, 133-139.	4.5	18
23	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
24	X-ray focusing with efficient high-NA multilayer Laue lenses. Light: Science and Applications, 2018, 7, 17162-17162.	16.6	114
25	Enzyme intermediates captured on the fly by mix-and-inject serial crystallography. BMC Biology, 2018, 16, 59.	3.8	117
26	Rapid sample delivery for megahertz serial crystallography at X-ray FELs. IUCrJ, 2018, 5, 574-584.	2.2	52
27	Structural enzymology using X-ray free electron lasers. Structural Dynamics, 2017, 4, 044003.	2.3	92
28	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
29	Double-flow focused liquid injector for efficient serial femtosecond crystallography. Scientific Reports, 2017, 7, 44628.	3.3	90
30	From Macrocrystals to Microcrystals: A Strategy for Membrane Protein Serial Crystallography. Structure, 2017, 25, 1461-1468.e2.	3.3	21
31	Probing Dynamics in Colloidal Crystals with Pump-Probe Experiments at LCLS: Methodology and Analysis. Applied Sciences (Switzerland), 2017, 7, 519.	2.5	4
32	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
33	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
34	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
35	Mix-and-diffuse serial synchrotron crystallography. IUCrJ, 2017, 4, 769-777.	2.2	98
36	Analysis of XFEL serial diffraction data from individual crystalline fibrils. IUCrJ, 2017, 4, 795-811.	2.2	16

#	ARTICLE	IF	CITATIONS
37	Femtosecond structural dynamics drives the trans/cis isomerization in photoactive yellow protein. <i>Science</i> , 2016, 352, 725-729.	12.6	348
38	X-ray laser diffraction for structure determination of the rhodopsin-arrestin complex. <i>Scientific Data</i> , 2016, 3, 160021.	5.3	51
39	Recent developments in <i>CrystFEL</i> . <i>Journal of Applied Crystallography</i> , 2016, 49, 680-689.	4.5	222
40	Perspectives for imaging single protein molecules with the present design of the European XFEL. <i>Structural Dynamics</i> , 2015, 2, 041702.	2.3	29
41	Accurate determination of segmented X-ray detector geometry. <i>Optics Express</i> , 2015, 23, 28459.	3.4	69
42	Trace phase detection and strain characterization from serial X-ray free-electron laser crystallography of a $\text{Pr}_{0.5}\text{Ca}_{0.5}\text{MnO}_3$ powder. <i>Powder Diffraction</i> , 2015, 30, S25-S30.	0.2	1
43	Ternary structure reveals mechanism of a membrane diacylglycerol kinase. <i>Nature Communications</i> , 2015, 6, 10140.	12.8	30
44	Structural Evolution of Colloidal Crystal Films in the Process of Melting Revealed by Bragg Peak Analysis. <i>Langmuir</i> , 2015, 31, 5274-5283.	3.5	27
45	Crystal structure of rhodopsin bound to arrestin by femtosecond X-ray laser. <i>Nature</i> , 2015, 523, 561-567.	27.8	683
46	High numerical aperture multilayer Laue lenses. <i>Scientific Reports</i> , 2015, 5, 9892.	3.3	89
47	Time-resolved serial crystallography captures high-resolution intermediates of photoactive yellow protein. <i>Science</i> , 2014, 346, 1242-1246.	12.6	418
48	Mapping the continuous reciprocal space intensity distribution of X-ray serial crystallography. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2014, 369, 20130333.	4.0	29
49	Serial crystallography on <i>in vivo</i> grown microcrystals using synchrotron radiation. <i>IUCr</i> , 2014, 1, 87-94.	2.2	204
50	Room-temperature macromolecular serial crystallography using synchrotron radiation. <i>IUCr</i> , 2014, 1, 204-212.	2.2	221
51	Accessible reciprocal-space region for non-coplanar Bragg and Laue geometries. <i>Journal of Applied Crystallography</i> , 2008, 41, 110-114.	4.5	5
52	<i>XVis</i> : an educational open-source program for demonstration of reciprocal-space construction and diffraction principles. <i>Journal of Applied Crystallography</i> , 2008, 41, 647-652.	4.5	6