

# Tokushi Sato

## List of Publications by Year in descending order

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27  
papers

1,297  
citations

516710

16  
h-index

526287

27  
g-index

28  
all docs

28  
docs citations

28  
times ranked

2082  
citing authors

#	ARTICLE	IF	CITATIONS
1	Unique atomic structure of metals at the moment of fracture induced by laser shock. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2022, 831, 142199.	5.6	1
2	Co-flow injection for serial crystallography at X-ray free-electron lasers. <i>Journal of Applied Crystallography</i> , 2022, 55, 1-13.	4.5	12
3	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. <i>IUCr</i> , 2022, 9, 204-214.	2.2	9
4	A multi-million image Serial Femtosecond Crystallography dataset collected at the European XFEL. <i>Scientific Data</i> , 2022, 9, 161.	5.3	5
5	Observation of substrate diffusion and ligand binding in enzyme crystals using high-repetition-rate mix-and-inject serial crystallography. <i>IUCr</i> , 2021, 8, 878-895.	2.2	44
6	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. <i>Optica</i> , 2021, 8, 15.	9.3	48
7	Time-resolved serial femtosecond crystallography at the European XFEL. <i>Nature Methods</i> , 2020, 17, 73-78.	19.0	110
8	Femtosecond timing synchronization at megahertz repetition rates for an x-ray free-electron laser. <i>Optica</i> , 2020, 7, 716.	9.3	16
9	Fate of transient isomer of CH2I2: Mechanism and origin of ionic photoproducts formation unveiled by time-resolved x-ray liquidography. <i>Journal of Chemical Physics</i> , 2019, 150, 224201.	3.0	10
10	Membrane protein megahertz crystallography at the European XFEL. <i>Nature Communications</i> , 2019, 10, 5021.	12.8	47
11	The Single Particles, Clusters and Biomolecules and Serial Femtosecond Crystallography instrument of the European XFEL: initial installation. <i>Journal of Synchrotron Radiation</i> , 2019, 26, 660-676.	2.4	90
12	Initial observations of the femtosecond timing jitter at the European XFEL. <i>Optics Letters</i> , 2019, 44, 1650.	3.3	17
13	Megahertz x-ray microscopy at x-ray free-electron laser and synchrotron sources. <i>Optica</i> , 2019, 6, 1106.	9.3	41
14	Megahertz serial crystallography. <i>Nature Communications</i> , 2018, 9, 4025.	12.8	147
15	Megahertz data collection from protein microcrystals at an X-ray free-electron laser. <i>Nature Communications</i> , 2018, 9, 3487.	12.8	89
16	MHz frame rate hard X-ray phase-contrast imaging using synchrotron radiation. <i>Optics Express</i> , 2017, 25, 13857.	3.4	82
17	Time-resolved observation of structural change of copper induced by laser shock using synchrotron radiation with dispersive XAFS. <i>High Pressure Research</i> , 2016, 36, 471-478.	1.2	11
18	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. <i>Nature Communications</i> , 2015, 6, 6359.	12.8	134

#	ARTICLE	IF	CITATIONS
19	Direct observation of bond formation in solution with femtosecond X-ray scattering. <i>Nature</i> , 2015, 518, 385-389.	27.8	207
20	In Situ Picosecond XAFS Study of an Excited State of Tungsten Oxide. <i>Chemistry Letters</i> , 2014, 43, 977-979.	1.3	22
21	Application of singular value decomposition analysis to time-dependent powder diffraction data of an <i>in-situ</i> photodimerization reaction. <i>Journal of Synchrotron Radiation</i> , 2014, 21, 554-560.	2.4	3
22	Time-Resolved Laser Pump/X-ray Probe Experiments Using Synchrotron Radiation Sources. <i>The Review of Laser Engineering</i> , 2014, 42, 55.	0.0	0
23	Time-resolved X-ray crystal structure analysis for elucidating the hidden "over-neutralized" phase of TTF-CA. <i>RSC Advances</i> , 2013, 3, 16313.	3.6	10
24	Complex structural dynamics of bismuth under laser-driven compression. <i>Applied Physics Letters</i> , 2013, 103, .	3.3	21
25	Reversible phase transition in laser-shocked 3Y-TZP ceramics observed via nanosecond time-resolved x-ray diffraction. <i>Journal of Applied Physics</i> , 2012, 111, .	2.5	15
26	Laser-induced picosecond lattice oscillations in submicron gold crystals. <i>Physical Review B</i> , 2011, 84, .	3.2	11
27	Developing 100-fs-resolved X-ray structural analysis capabilities on beamline NW14A at the Photon Factory Advanced Ring. <i>Journal of Synchrotron Radiation</i> , 2007, 14, 313-319.	2.4	93