Tokushi Sato

List of Publications by Year
in descending order

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27	1,297	516710 16	526287 27
papers	citations	h-index	g-index

28	28	28	2082
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Direct observation of bond formation in solution with femtosecond X-ray scattering. Nature, 2015, 518, 385-389.	27.8	207
2	Megahertz serial crystallography. Nature Communications, 2018, 9, 4025.	12.8	147
3	Visualizing the non-equilibrium dynamics of photoinduced intramolecular electron transfer with femtosecond X-ray pulses. Nature Communications, 2015, 6, 6359.	12.8	134
4	Time-resolved serial femtosecond crystallography at the European XFEL. Nature Methods, 2020, 17, 73-78.	19.0	110
5	Developing 100â€...ps-resolved X-ray structural analysis capabilities on beamline NW14A at the Photon Factory Advanced Ring. Journal of Synchrotron Radiation, 2007, 14, 313-319.	2.4	93
6	The Single Particles, Clusters and Biomolecules and Serial Femtosecond Crystallography instrument of the European XFEL: initial installation. Journal of Synchrotron Radiation, 2019, 26, 660-676.	2.4	90
7	Megahertz data collection from protein microcrystals at an X-ray free-electron laser. Nature Communications, 2018, 9, 3487.	12.8	89
8	MHz frame rate hard X-ray phase-contrast imaging using synchrotron radiation. Optics Express, 2017, 25, 13857.	3.4	82
9	3D diffractive imaging of nanoparticle ensembles using an x-ray laser. Optica, 2021, 8, 15.	9.3	48
10	Membrane protein megahertz crystallography at the European XFEL. Nature Communications, 2019, 10, 5021.	12.8	47
11	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
12	Megahertz x-ray microscopy at x-ray free-electron laser and synchrotron sources. Optica, 2019, 6, 1106.	9.3	41
13	In Situ Picosecond XAFS Study of an Excited State of Tungsten Oxide. Chemistry Letters, 2014, 43, 977-979.	1.3	22
14	Complex structural dynamics of bismuth under laser-driven compression. Applied Physics Letters, 2013, 103, .	3.3	21
15	Initial observations of the femtosecond timing jitter at the European XFEL. Optics Letters, 2019, 44, 1650.	3.3	17
16	Femtosecond timing synchronization at megahertz repetition rates for an x-ray free-electron laser. Optica, 2020, 7, 716.	9.3	16
17	Reversible phase transition in laser-shocked 3Y-TZP ceramics observed via nanosecond time-resolved x-ray diffraction. Journal of Applied Physics, 2012, 111, .	2.5	15
18	Co-flow injection for serial crystallography at X-ray free-electron lasers. Journal of Applied Crystallography, 2022, 55, 1-13.	4.5	12

#	Article	IF	Citations
19	Laser-induced picosecond lattice oscillations in submicron gold crystals. Physical Review B, 2011, 84, .	3.2	11
20	Time-resolved observation of structural change of copper induced by laser shock using synchrotron radiation with dispersive XAFS. High Pressure Research, 2016, 36, 471-478.	1.2	11
21	Time-resolved X-ray crystal structure analysis for elucidating the hidden â€˜over-neutralizedâ€™ phase of TTF-CA. RSC Advances, 2013, 3, 16313.	3.6	10
22	Fate of transient isomer of CH2I2: Mechanism and origin of ionic photoproducts formation unveiled by time-resolved x-ray liquidography. Journal of Chemical Physics, 2019, 150, 224201.	3.0	10
23	Unsupervised learning approaches to characterizing heterogeneous samples using X-ray single-particle imaging. IUCrJ, 2022, 9, 204-214.	2.2	9
24	A multi-million image Serial Femtosecond Crystallography dataset collected at the European XFEL. Scientific Data, 2022, 9, 161.	5.3	5
25	Application of singular value decomposition analysis to time-dependent powder diffraction dataÂof anin-situphotodimerization reaction. Journal of Synchrotron Radiation, 2014, 21, 554-560.	2.4	3
26	Unique atomic structure of metals at the moment of fracture induced by laser shock. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2022, 831, 142199.	5.6	1
27	Time-Resolved Laser Pump/X-ray Probe Experiments Using Synchrotron Radiation Sources. The Review of Laser Engineering, 2014, 42, 55.	0.0	0