Yuji C Sasaki

List of Publications by Year in Descending Order

82 papers	842 citations	16 h-index	25 g-index
131 ext. papers	971 ext. citations	3.1 avg, IF	3.62 L-index

#	Paper	IF	Citations
82	Dynamic motions of ice-binding proteins in living using diffracted X-ray blinking and tracking.. *Biochemistry and Biophysics Reports*, **2022**, 29, 101224	2.2	
81	Twisting Motion of TRPV1 Channel Associate with Ligand Binding. *Seibutsu Butsuri*, **2022**, 62, 43-45	0	
80	Tilting and rotational motions of silver halide crystal with diffracted X-ray blinking. *Scientific Reports*, **2021**, 11, 4097	4.9	4
79	Living-Cell Diffracted X-ray Tracking Analysis Confirmed Internal Salt Bridge Is Critical for Ligand-Induced Twisting Motion of Serotonin Receptors. *International Journal of Molecular Sciences* , **2021**, 22,	6.3	1
78	Diffracted X-ray blinking measurements of interleukin 15 receptors in the inner/outer membrane of living NK cells. *Biochemical and Biophysical Research Communications*, **2021**, 556, 53-58	3.4	3
77	Laboratory diffracted x-ray blinking to monitor picometer motions of protein molecules and application to crystalline materials. *Structural Dynamics*, **2021**, 8, 044302	3.2	0
76	Structural dynamics of a DNA-binding protein analyzed using diffracted X-ray tracking. *Biophysical Chemistry*, **2021**, 278, 106669	3.5	0
75	An Ice-Binding Protein from an Antarctic Ascomycete Is Fine-Tuned to Bind to Specific Water Molecules Located in the Ice Prism Planes. *Biomolecules*, **2020**, 10,	5.9	4
74	X-ray-based living-cell motion analysis of individual serotonin receptors. *Biochemical and Biophysical Research Communications*, **2020**, 529, 306-313	3.4	7
73	X-ray fluorescence holography for soft matter. *Japanese Journal of Applied Physics*, **2020**, 59, 010505	1.4	4
72	Development of x-ray single molecule tracking method and its wide area applications. *Denki Kagaku*, **2020**, 88, 246-253	0	
71	Agonist and Antagonist-Diverted Twisting Motions of a Single TRPV1 Channel. *Journal of Physical Chemistry B*, **2020**, 124, 11617-11624	3.4	4
70	Expression of Ice-Binding Proteins in Caenorhabditis elegans Improves the Survival Rate upon Cold Shock and during Freezing. *Scientific Reports*, **2019**, 9, 6246	4.9	8
69	Toward understanding of internal motion measurement with quantum probe and cryo-EM. *Japanese Journal of Pesticide Science*, **2019**, 44, 210-215	0	
68	Dynamic 3D visualization of active protein?s motion using diffracted X-ray tracking. *Japanese Journal of Applied Physics*, **2019**, 58, 120501	1.4	4
67	DNA-binding induced conformational change of c-Myb R2R3 analyzed using diffracted X-ray tracking. *Biochemical and Biophysical Research Communications*, **2018**, 503, 338-343	3.4	4
66	Time-Resolved Measurement of the ATP-Dependent Motion of the Group II Chaperonin by Diffracted Electron Tracking. *International Journal of Molecular Sciences*, **2018**, 19,	6.3	1

65	Principle and Reconstruction Algorithm for Atomic-Resolution Holography. *Journal of the Physical Society of Japan*, **2018**, 87, 061002	1.5	23
64	X-ray observations of single bio-supramolecular photochirogenesis. *Biophysical Chemistry*, **2018**, 242, 1-5	3.5	3
63	Diffracted X-ray Blinking Tracks Single Protein Motions. *Scientific Reports*, **2018**, 8, 17090	4.9	11
62	Progression of 3D Protein Structure and Dynamics Measurements. *Journal of the Physical Society of Japan*, **2018**, 87, 061015	1.5	2
61	Direct Imaging of Valence-Sensitive X-Ray Fluorescence Holograms of Fe3O4. *Physica Status Solidi (B): Basic Research*, **2018**, 255, 1800100	1.3	5
60	Nanoscale Dynamics of Protein Assembly Networks in Supersaturated Solutions. *Scientific Reports*, **2017**, 7, 13883	4.9	5
59	First observation of metal ion-induced structural fluctuations of α-helical peptides by using diffracted X-ray tracking. *Biophysical Chemistry*, **2017**, 228, 81-86	3.5	5
58	Asymmetry in the function and dynamics of the cytosolic group II chaperonin CCT/TRiC. *PLoS ONE*, **2017**, 12, e0176054	3.7	8
57	Development of an X-ray fluorescence holographic measurement system for protein crystals. *Review of Scientific Instruments*, **2016**, 87, 063707	1.7	22
56	Characterization of group II chaperonins from an acidothermophilic archaeon Picrophilus torridus. *FEBS Open Bio*, **2016**, 6, 751-64	2.7	5
55	Structural dynamics of a single-chain Fv antibody against (4-hydroxy-3-nitrophenyl)acetyl. *International Journal of Biological Macromolecules*, **2016**, 91, 151-7	7.9	12
54	Single-molecule motions of MHC class II rely on bound peptides. *Biophysical Journal*, **2015**, 108, 350-9	2.9	10
53	Cooling dynamics of self-assembled monolayer coating for integrated gold nanocrystals on a glass substrate. *Journal of Synchrotron Radiation*, **2015**, 22, 29-33	2.4	2
52	New developments of X-ray fluorescence imaging techniques in laboratory. *Spectrochimica Acta, Part B: Atomic Spectroscopy*, **2015**, 113, 43-53	3.1	29
51	Time-resolved X-ray Tracking of Expansion and Compression Dynamics in Supersaturating Ion-Networks. *Scientific Reports*, **2015**, 5, 17647	4.9	10
50	Time-resolved measurement of the three-dimensional motion of gold nanocrystals in water using diffracted electron tracking. *Ultramicroscopy*, **2014**, 140, 1-8	3.1	2
49	Inter-ring communication is dispensable in the reaction cycle of group II chaperonins. *Journal of Molecular Biology*, **2014**, 426, 2667-78	6.5	9
48	Real time ligand-induced motion mappings of AChBP and nAChR using X-ray single molecule tracking. *Scientific Reports*, **2014**, 4, 6384	4.9	24

47	Absolute scale calibration with use of excess scattering length for small-angle X-ray scattering. *Journal of Applied Crystallography*, **2014**, 47, 654-658	3.8	4
46	Single-Shot Time-Resolved X-Ray Scattering Measurements of Polycrystalline and Amorphous Materials Under Shock Wave Loading **2013**, 3489-3496		
45	Diffracted X-ray tracking for monitoring intramolecular motion in individual protein molecules using broad band X-ray. *Review of Scientific Instruments*, **2013**, 84, 103701	1.7	5
44	Tracking 3D picometer-scale motions of single nanoparticles with high-energy electron probes. *Scientific Reports*, **2013**, 3, 2201	4.9	7
43	ATP dependent rotational motion of group II chaperonin observed by X-ray single molecule tracking. *PLoS ONE*, **2013**, 8, e64176	3.7	25
42	Single-shot time-resolved X-ray scattering measurements of polycrystalline and amorphous materials under shock wave loading **2013**, 3489-3496		
41	Picometer-Scale Dynamical Single-Molecule Imaging by High-Energy Probe **2013**, 209-234		
40	Shock-induced intermediate-range structural change of SiO2 glass in the nonlinear elastic region. *Applied Physics Letters*, **2012**, 101, 181901	3.4	9
39	Reversible phase transition in laser-shocked 3Y-TZP ceramics observed via nanosecond time-resolved x-ray diffraction. *Journal of Applied Physics*, **2012**, 111, 053526	2.5	13
38	Laser-induced picosecond lattice oscillations in submicron gold crystals. *Physical Review B*, **2011**, 84,	3.3	8
37	The Intra Dynamics of Group II Chaperonin Detected by Diffracted X-Ray Tracking Method. *Biophysical Journal*, **2010**, 98, 187a-188a	2.9	
36	Global twisting motion of single molecular KcsA potassium channel upon gating. *Cell*, **2008**, 132, 67-78	56.2	97
35	The Quantitative Determination of Biomolecules Interactions Using Diffracted X-ray Tracking System. *Seibutsu Butsuri*, **2008**, 48, 046-051	0	
34	Replica-exchange molecular dynamics simulation of diffracted X-ray tracking. *Molecular Simulation*, **2007**, 33, 97-102	2	7
33	Dynamical regulations of protein-ligand bindings at single molecular level. *Biochemical and Biophysical Research Communications*, **2007**, 355, 770-5	3.4	15
32	Surface structure and its dynamic rearrangements of the KcsA potassium channel upon gating and tetrabutylammonium blocking. *Journal of Biological Chemistry*, **2006**, 281, 28379-86	5.4	50
31	Observations of x-ray radiation pressure force on individual gold nanocrystals. *Applied Physics Letters*, **2006**, 89, 053121	3.4	12
30	Dynamical Observations of Internal Structural Changes in Individual Functional Molecules using X-rays. *Hyomen Kagaku*, **2006**, 27, 265-271		

29	Fabrications of dispersive gold one-dimensional nanocrystals using vacuum evaporation. *Thin Solid Films*, **2005**, 471, 91-95	2.2	20
28	Picometer-scale dynamical observations of individual membrane proteins: the case of bacteriorhodopsin. *Physical Review E*, **2004**, 70, 021917	2.4	19
27	Force generation by recombinant myosin heads trapped between two functionalized surfaces. *European Biophysics Journal*, **2004**, 33, 469-76	1.9	2
26	Single protein molecular dynamics determined with ultra-high precision. *Biochemical Society Transactions*, **2004**, 32, 761-3	5.1	4
25	Dispersive one-dimensional (Mo/Si) nanocrystals for single molecular detection systems using x rays. *Journal of Applied Physics*, **2002**, 92, 7469-7474	2.5	3
24	Diffracted X-ray tracking:. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2001**, 467-468, 1049-1052	1.2	7
23	Picometer-scale dynamical x-ray imaging of single DNA molecules. *Physical Review Letters*, **2001**, 87, 248102	7.4	37
22	Tracking of individual nanocrystals using diffracted x rays. *Physical Review E*, **2000**, 62, 3843-7	2.4	47
21	Structural information from the interference effect of electron-capture X-rays. *Journal of Radioanalytical and Nuclear Chemistry*, **1999**, 239, 341-344	1.5	
20	Elasticity of mutant myosin subfragment-1 arranged on a functional silver surface. *Biochemical and Biophysical Research Communications*, **1999**, 261, 276-82	3.4	11
19	Time-resolved fluorescent X-ray interference. *Journal of Synchrotron Radiation*, **1998**, 5, 1075-8	2.4	
18	Vectorially Oriented Fixation of Membrane-Embedded Bacteriorhodopsin onto an Inert Base. *Langmuir*, **1998**, 14, 1829-1835	4	7
17	Two-dimensional arrangement of a functional protein by cysteine-gold interaction: enzyme activity and characterization of a protein monolayer on a gold substrate. *Biophysical Journal*, **1997**, 72, 1842-8	2.9	49
16	Observation of Nanometer-Level Structural Changes by the Trans□is Transition of an Azobenzene Derivative Monolayer with a Radioactive Tracer. *Langmuir*, **1996**, 12, 4173-4175	4	5
15	Site determination of radioactive atoms from the interference effect of electron-capture rays: structural change of 111In-labelled azobenzene derivative. *Thin Solid Films*, **1996**, 284-285, 456-458	2.2	
14	Observation of interference effects due to multiple reflection of fluorescent x rays in an organic thin film. *Physical Review B*, **1996**, 54, 12729-12732	3.3	
13	Observation of x-ray sheet beam from radioisotopes embedded in thin-film waveguide. *Applied Physics Letters*, **1995**, 67, 164-166	3.4	2
12	Emergence of Basic Sites on a Si(111) Surface in the Initial Stage of Oxidation in Water. *Langmuir*, **1995**, 11, 3446-3449	4	2

11	Interference Effect of Electron-Capture X-Rays from an 125I-Labeled Protein Monolayer in an Aqueous Solution.. *Analytical Sciences*, **1995**, 11, 545-548	1.7	2
10	Fluorescent X-ray interference from a protein monolayer. *Science*, **1994**, 263, 62-4	33.3	21
9	Site determination of radioactive atoms from the interference effect of electron-capture x rays. *Physical Review B*, **1994**, 50, 15516-15518	3.3	7
8	Observation of an interference effect for fluorescent x rays. *Physical Review B*, **1993**, 48, 7724-7726	3.3	21
7	NEW TECHNIQUE FOR EVALUATION OF SURFACES AND INTERFACES BY USING REFRACTION EFFECT OF SCATTERED X-RAY FLUORESCENCE. *Analytical Sciences*, **1991**, 7, 1375-1376	1.7	
6	New technique for evaluation of surfaces and interfaces at atmospheric pressure by using Refracted X-ray Fluorescence (RXF). *Applied Surface Science*, **1991**, 47, 371-374	6.7	5
5	The Form Change of Metal Thin Film as Measured by the Refracted X-Ray Fluorescence (RXF) Method. *Japanese Journal of Applied Physics*, **1991**, 30, L761-L763	1.4	13
4	New nondestructive depth profile measurement by using a refracted x-ray fluorescence method. *Applied Physics Letters*, **1991**, 58, 1384-1386	3.4	26
3	Zn drops at a Si surface measured by the refracted x-ray fluorescence method. *Journal of Applied Physics*, **1991**, 69, 8420-8422	2.5	7
2	Refraction effect of scattered X-ray fluorescence at surface. *Applied Physics A: Solids and Surfaces*, **1990**, 50, 397-404		38
1	Dynamical Single-Molecule Observations of Membrane Protein Using High-Energy Probes. *Advances in Chemical Physics*,133-145		