

# Yuji C Sasaki

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Global twisting motion of single molecular KcsA potassium channel upon gating. <i>Cell</i> , <b>2008</b> , 132, 67-78	56.2	97
81	Surface structure and its dynamic rearrangements of the KcsA potassium channel upon gating and tetrabutylammonium blocking. <i>Journal of Biological Chemistry</i> , <b>2006</b> , 281, 28379-86	5.4	50
80	Two-dimensional arrangement of a functional protein by cysteine-gold interaction: enzyme activity and characterization of a protein monolayer on a gold substrate. <i>Biophysical Journal</i> , <b>1997</b> , 72, 1842-8	2.9	49
79	Tracking of individual nanocrystals using diffracted x rays. <i>Physical Review E</i> , <b>2000</b> , 62, 3843-7	2.4	47
78	Refraction effect of scattered X-ray fluorescence at surface. <i>Applied Physics A: Solids and Surfaces</i> , <b>1990</b> , 50, 397-404		38
77	Picometer-scale dynamical x-ray imaging of single DNA molecules. <i>Physical Review Letters</i> , <b>2001</b> , 87, 2481-4	10.2	37
76	New developments of X-ray fluorescence imaging techniques in laboratory. <i>Spectrochimica Acta, Part B: Atomic Spectroscopy</i> , <b>2015</b> , 113, 43-53	3.1	29
75	New nondestructive depth profile measurement by using a refracted x-ray fluorescence method. <i>Applied Physics Letters</i> , <b>1991</b> , 58, 1384-1386	3.4	26
74	ATP dependent rotational motion of group II chaperonin observed by X-ray single molecule tracking. <i>PLoS ONE</i> , <b>2013</b> , 8, e64176	3.7	25
73	Real time ligand-induced motion mappings of AChBP and nAChR using X-ray single molecule tracking. <i>Scientific Reports</i> , <b>2014</b> , 4, 6384	4.9	24
72	Principle and Reconstruction Algorithm for Atomic-Resolution Holography. <i>Journal of the Physical Society of Japan</i> , <b>2018</b> , 87, 061002	1.5	23
71	Development of an X-ray fluorescence holographic measurement system for protein crystals. <i>Review of Scientific Instruments</i> , <b>2016</b> , 87, 063707	1.7	22
70	Observation of an interference effect for fluorescent x rays. <i>Physical Review B</i> , <b>1993</b> , 48, 7724-7726	3.3	21
69	Fluorescent X-ray interference from a protein monolayer. <i>Science</i> , <b>1994</b> , 263, 62-4	33.3	21
68	Fabrications of dispersive gold one-dimensional nanocrystals using vacuum evaporation. <i>Thin Solid Films</i> , <b>2005</b> , 471, 91-95	2.2	20
67	Picometer-scale dynamical observations of individual membrane proteins: the case of bacteriorhodopsin. <i>Physical Review E</i> , <b>2004</b> , 70, 021917	2.4	19
66	Dynamical regulations of protein-ligand bindings at single molecular level. <i>Biochemical and Biophysical Research Communications</i> , <b>2007</b> , 355, 770-5	3.4	15

65	Reversible phase transition in laser-shocked 3Y-TZP ceramics observed via nanosecond time-resolved x-ray diffraction. <i>Journal of Applied Physics</i> , <b>2012</b> , 111, 053526	2.5	13
64	The Form Change of Metal Thin Film as Measured by the Refracted X-Ray Fluorescence (RXF) Method. <i>Japanese Journal of Applied Physics</i> , <b>1991</b> , 30, L761-L763	1.4	13
63	Structural dynamics of a single-chain Fv antibody against (4-hydroxy-3-nitrophenyl)acetyl. <i>International Journal of Biological Macromolecules</i> , <b>2016</b> , 91, 151-7	7.9	12
62	Observations of x-ray radiation pressure force on individual gold nanocrystals. <i>Applied Physics Letters</i> , <b>2006</b> , 89, 053121	3.4	12
61	Elasticity of mutant myosin subfragment-1 arranged on a functional silver surface. <i>Biochemical and Biophysical Research Communications</i> , <b>1999</b> , 261, 276-82	3.4	11
60	Diffraction X-ray Blinking Tracks Single Protein Motions. <i>Scientific Reports</i> , <b>2018</b> , 8, 17090	4.9	11
59	Single-molecule motions of MHC class II rely on bound peptides. <i>Biophysical Journal</i> , <b>2015</b> , 108, 350-9	2.9	10
58	Time-resolved X-ray Tracking of Expansion and Compression Dynamics in Supersaturating Ion-Networks. <i>Scientific Reports</i> , <b>2015</b> , 5, 17647	4.9	10
57	Inter-ring communication is dispensable in the reaction cycle of group II chaperonins. <i>Journal of Molecular Biology</i> , <b>2014</b> , 426, 2667-78	6.5	9
56	Shock-induced intermediate-range structural change of SiO <sub>2</sub> glass in the nonlinear elastic region. <i>Applied Physics Letters</i> , <b>2012</b> , 101, 181901	3.4	9
55	Expression of Ice-Binding Proteins in <i>Caenorhabditis elegans</i> Improves the Survival Rate upon Cold Shock and during Freezing. <i>Scientific Reports</i> , <b>2019</b> , 9, 6246	4.9	8
54	Laser-induced picosecond lattice oscillations in submicron gold crystals. <i>Physical Review B</i> , <b>2011</b> , 84,	3.3	8
53	Asymmetry in the function and dynamics of the cytosolic group II chaperonin CCT/TRiC. <i>PLoS ONE</i> , <b>2017</b> , 12, e0176054	3.7	8
52	X-ray-based living-cell motion analysis of individual serotonin receptors. <i>Biochemical and Biophysical Research Communications</i> , <b>2020</b> , 529, 306-313	3.4	7
51	Tracking 3D picometer-scale motions of single nanoparticles with high-energy electron probes. <i>Scientific Reports</i> , <b>2013</b> , 3, 2201	4.9	7
50	Replica-exchange molecular dynamics simulation of diffracted X-ray tracking. <i>Molecular Simulation</i> , <b>2007</b> , 33, 97-102	2	7
49	Diffracted X-ray tracking: . <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , <b>2001</b> , 467-468, 1049-1052	1.2	7
48	Vectorially Oriented Fixation of Membrane-Embedded Bacteriorhodopsin onto an Inert Base. <i>Langmuir</i> , <b>1998</b> , 14, 1829-1835	4	7

47	Site determination of radioactive atoms from the interference effect of electron-capture x rays. <i>Physical Review B</i> , <b>1994</b> , 50, 15516-15518	3.3	7
46	Zn drops at a Si surface measured by the refracted x-ray fluorescence method. <i>Journal of Applied Physics</i> , <b>1991</b> , 69, 8420-8422	2.5	7
45	Nanoscale Dynamics of Protein Assembly Networks in Supersaturated Solutions. <i>Scientific Reports</i> , <b>2017</b> , 7, 13883	4.9	5
44	Characterization of group II chaperonins from an acidothermophilic archaeon <i>Picrophilus_torridus</i> . <i>FEBS Open Bio</i> , <b>2016</b> , 6, 751-64	2.7	5
43	First observation of metal ion-induced structural fluctuations of helical peptides by using diffracted X-ray tracking. <i>Biophysical Chemistry</i> , <b>2017</b> , 228, 81-86	3.5	5
42	Diffracted X-ray tracking for monitoring intramolecular motion in individual protein molecules using broad band X-ray. <i>Review of Scientific Instruments</i> , <b>2013</b> , 84, 103701	1.7	5
41	Observation of Nanometer-Level Structural Changes by the Trans_cis Transition of an Azobenzene Derivative Monolayer with a Radioactive Tracer. <i>Langmuir</i> , <b>1996</b> , 12, 4173-4175	4	5
40	New technique for evaluation of surfaces and interfaces at atmospheric pressure by using Refracted X-ray Fluorescence (RXF). <i>Applied Surface Science</i> , <b>1991</b> , 47, 371-374	6.7	5
39	Direct Imaging of Valence-Sensitive X-Ray Fluorescence Holograms of Fe <sub>3</sub> O <sub>4</sub> . <i>Physica Status Solidi (B): Basic Research</i> , <b>2018</b> , 255, 1800100	1.3	5
38	An Ice-Binding Protein from an Antarctic Ascomycete Is Fine-Tuned to Bind to Specific Water Molecules Located in the Ice Prism Planes. <i>Biomolecules</i> , <b>2020</b> , 10,	5.9	4
37	X-ray fluorescence holography for soft matter. <i>Japanese Journal of Applied Physics</i> , <b>2020</b> , 59, 010505	1.4	4
36	DNA-binding induced conformational change of c-Myb R2R3 analyzed using diffracted X-ray tracking. <i>Biochemical and Biophysical Research Communications</i> , <b>2018</b> , 503, 338-343	3.4	4
35	Absolute scale calibration with use of excess scattering length for small-angle X-ray scattering. <i>Journal of Applied Crystallography</i> , <b>2014</b> , 47, 654-658	3.8	4
34	Single protein molecular dynamics determined with ultra-high precision. <i>Biochemical Society Transactions</i> , <b>2004</b> , 32, 761-3	5.1	4
33	Agonist and Antagonist-Diverted Twisting Motions of a Single TRPV1 Channel. <i>Journal of Physical Chemistry B</i> , <b>2020</b> , 124, 11617-11624	3.4	4
32	Tilting and rotational motions of silver halide crystal with diffracted X-ray blinking. <i>Scientific Reports</i> , <b>2021</b> , 11, 4097	4.9	4
31	Dynamic 3D visualization of active protein's motion using diffracted X-ray tracking. <i>Japanese Journal of Applied Physics</i> , <b>2019</b> , 58, 120501	1.4	4
30	X-ray observations of single bio-supramolecular photochirogenesis. <i>Biophysical Chemistry</i> , <b>2018</b> , 242, 1-5	3.5	3

29	Dispersive one-dimensional (Mo/Si) nanocrystals for single molecular detection systems using x rays. <i>Journal of Applied Physics</i> , <b>2002</b> , 92, 7469-7474	2.5	3
28	Diffraction X-ray blinking measurements of interleukin 15 receptors in the inner/outer membrane of living NK cells. <i>Biochemical and Biophysical Research Communications</i> , <b>2021</b> , 556, 53-58	3.4	3
27	Cooling dynamics of self-assembled monolayer coating for integrated gold nanocrystals on a glass substrate. <i>Journal of Synchrotron Radiation</i> , <b>2015</b> , 22, 29-33	2.4	2
26	Time-resolved measurement of the three-dimensional motion of gold nanocrystals in water using diffracted electron tracking. <i>Ultramicroscopy</i> , <b>2014</b> , 140, 1-8	3.1	2
25	Force generation by recombinant myosin heads trapped between two functionalized surfaces. <i>European Biophysics Journal</i> , <b>2004</b> , 33, 469-76	1.9	2
24	Observation of x-ray sheet beam from radioisotopes embedded in thin-film waveguide. <i>Applied Physics Letters</i> , <b>1995</b> , 67, 164-166	3.4	2
23	Emergence of Basic Sites on a Si(111) Surface in the Initial Stage of Oxidation in Water. <i>Langmuir</i> , <b>1995</b> , 11, 3446-3449	4	2
22	Interference Effect of Electron-Capture X-Rays from an 125I-Labeled Protein Monolayer in an Aqueous Solution.. <i>Analytical Sciences</i> , <b>1995</b> , 11, 545-548	1.7	2
21	Progression of 3D Protein Structure and Dynamics Measurements. <i>Journal of the Physical Society of Japan</i> , <b>2018</b> , 87, 061015	1.5	2
20	Time-Resolved Measurement of the ATP-Dependent Motion of the Group II Chaperonin by Diffracted Electron Tracking. <i>International Journal of Molecular Sciences</i> , <b>2018</b> , 19,	6.3	1
19	Living-Cell Diffracted X-ray Tracking Analysis Confirmed Internal Salt Bridge Is Critical for Ligand-Induced Twisting Motion of Serotonin Receptors. <i>International Journal of Molecular Sciences</i> , <b>2021</b> , 22,	6.3	1
18	Laboratory diffracted x-ray blinking to monitor picometer motions of protein molecules and application to crystalline materials. <i>Structural Dynamics</i> , <b>2021</b> , 8, 044302	3.2	0
17	Structural dynamics of a DNA-binding protein analyzed using diffracted X-ray tracking. <i>Biophysical Chemistry</i> , <b>2021</b> , 278, 106669	3.5	0
16	Single-Shot Time-Resolved X-Ray Scattering Measurements of Polycrystalline and Amorphous Materials Under Shock Wave Loading <b>2013</b> , 3489-3496		
15	The Intra Dynamics of Group II Chaperonin Detected by Diffracted X-Ray Tracking Method. <i>Biophysical Journal</i> , <b>2010</b> , 98, 187a-188a	2.9	
14	Time-resolved fluorescent X-ray interference. <i>Journal of Synchrotron Radiation</i> , <b>1998</b> , 5, 1075-8	2.4	
13	Structural information from the interference effect of electron-capture X-rays. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , <b>1999</b> , 239, 341-344	1.5	
12	Site determination of radioactive atoms from the interference effect of electron-capture rays: structural change of 111In-labelled azobenzene derivative. <i>Thin Solid Films</i> , <b>1996</b> , 284-285, 456-458	2.2	

- 11 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
- 10 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
- 9 Dynamic motions of ice-binding proteins in living using diffracted X-ray blinking and tracking.. *Biochemistry and Biophysics Reports*, **2022**, 29, 101224 2.2
- 8 Dynamical Observations of Internal Structural Changes in Individual Functional Molecules using X-rays. *Hyomen Kagaku*, **2006**, 27, 265-271
- 7 The Quantitative Determination of Biomolecules Interactions Using Diffracted X-ray Tracking System. *Seibutsu Butsuri*, **2008**, 48, 046-051 ○
- 6 Toward understanding of internal motion measurement with quantum probe and cryo-EM. *Japanese Journal of Pesticide Science*, **2019**, 44, 210-215 ○
- 5 Development of x-ray single molecule tracking method and its wide area applications. *Denki Kagaku*, **2020**, 88, 246-253 ○
- 4 Dynamical Single-Molecule Observations of Membrane Protein Using High-Energy Probes. *Advances in Chemical Physics*, 133-145
- 3 Single-shot time-resolved X-ray scattering measurements of polycrystalline and amorphous materials under shock wave loading **2013**, 3489-3496
- 2 Picometer-Scale Dynamical Single-Molecule Imaging by High-Energy Probe **2013**, 209-234
- 1 Twisting Motion of TRPV1 Channel Associate with Ligand Binding. *Seibutsu Butsuri*, **2022**, 62, 43-45 ○