

Yasushi Sako

List of Publications by Year in descending order

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119
papers

5,657
citations

94433

37
h-index

82547

72
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132
all docs

132
docs citations

132
times ranked

5897
citing authors

#	ARTICLE	IF	CITATIONS
1	Heterotrimeric Gq proteins act as a switch for GRK5/6 selectivity underlying β^2 -arrestin transducer bias. <i>Nature Communications</i> , 2022, 13, 487.	12.8	53
2	Amyloid conformation-dependent disaggregation in a reconstituted yeast prion system. <i>Nature Chemical Biology</i> , 2022, 18, 321-331.	8.0	18
3	Assessing transfer entropy from biochemical data. <i>Physical Review E</i> , 2022, 105, 034403.	2.1	1
4	A novel sterol-binding protein reveals heterogeneous cholesterol distribution in neurite outgrowth and in late endosomes/lysosomes. <i>Cellular and Molecular Life Sciences</i> , 2022, 79, .	5.4	3
5	Enhanced transcriptional heterogeneity mediated by NF- κ B super-enhancers. <i>PLoS Genetics</i> , 2022, 18, e1010235.	3.5	7
6	Cell-to-cell diversification in ERBB-RAS-MAPK signal transduction that produces cell-type specific growth factor responses. <i>BioSystems</i> , 2021, 199, 104293.	2.0	4
7	Biphasic spatiotemporal regulation of GRB2 dynamics by p52SHC for transient RAS activation. <i>Biophysics and Physicobiology</i> , 2021, 18, 1-12.	1.0	7
8	In-Cell Single-Molecule Analysis of Molecular State and Reaction Kinetics Coupling. <i>Advances in Experimental Medicine and Biology</i> , 2021, 1310, 59-80.	1.6	0
9	Quantitative analyses reveal extracellular dynamics of Wnt ligands in <i>Xenopus</i> embryos. <i>ELife</i> , 2021, 10, .	6.0	14
10	Comparative Analysis of Single-Molecule Dynamics of TRPV1 and TRPV4 Channels in Living Cells. <i>International Journal of Molecular Sciences</i> , 2021, 22, 8473.	4.1	3
11	p52Shc regulates the sustainability of ERK activation in a RAF-independent manner. <i>Molecular Biology of the Cell</i> , 2021, 32, 1838-1848.	2.1	3
12	Workflows of the Single-Molecule Imaging Analysis in Living Cells: Tutorial Guidance to the Measurement of the Drug Effects on a GPCR. <i>Methods in Molecular Biology</i> , 2021, 2274, 391-441.	0.9	10
13	Single-molecule Imaging of GPCRs: An Application to the Drug Evaluation and Pharmacology. <i>Seibutsu Butsuri</i> , 2021, 61, 366-369.	0.1	0
14	PMP2/FABP8 induces PI(4,5)P2-dependent transbilayer reorganization of sphingomyelin in the plasma membrane. <i>Cell Reports</i> , 2021, 37, 109935.	6.4	22
15	In-cell single-molecule FRET measurements reveal three conformational state changes in RAF protein. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129358.	2.4	16
16	SEIBUTSU BUTSURI, the official Japanese journal of the Biophysical Society of Japan. <i>Biophysical Reviews</i> , 2020, 12, 215-216.	3.2	3
17	Resolvin E3 attenuates allergic airway inflammation via the interleukin-23/interleukin-17A pathway. <i>FASEB Journal</i> , 2019, 33, 12750-12759.	0.5	31
18	A nuclear envelop-associated baculovirus protein promotes intranuclear lipid accumulation during infection. <i>Virology</i> , 2019, 532, 108-117.	2.4	12

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19	Single-Molecule Förster Resonance Energy Transfer Measurement Reveals the Dynamic Partially Ordered Structure of the Epidermal Growth Factor Receptor C-Tail Domain. <i>Journal of Physical Chemistry B</i> , 2019, 123, 571-581.	2.6	10
20	Transient Acceleration of Epidermal Growth Factor Receptor Dynamics Produces Higher-Order Signaling Clusters. <i>Journal of Molecular Biology</i> , 2018, 430, 1386-1401.	4.2	34
21	Lipid-Protein Interplay in Dimerization of Juxtamembrane Domains of Epidermal Growth Factor Receptor. <i>Biophysical Journal</i> , 2018, 114, 893-903.	0.5	33
22	Shift in Conformational Equilibrium Induces Constitutive Activity of G-Protein-Coupled Receptor, Rhodopsin. <i>Journal of Physical Chemistry B</i> , 2018, 122, 4838-4843.	2.6	9
23	Transcriptionally inducible Pleckstrin homology-like domain, family A, member 1, attenuates ErbB receptor activity by inhibiting receptor oligomerization. <i>Journal of Biological Chemistry</i> , 2018, 293, 2206-2218.	3.4	9
24	Inferring a nonlinear biochemical network model from a heterogeneous single-cell time course data. <i>Scientific Reports</i> , 2018, 8, 6790.	3.3	13
25	Single-molecule fluorescence-based analysis of protein conformation, interaction, and oligomerization in cellular systems. <i>Biophysical Reviews</i> , 2018, 10, 317-326.	3.2	17
26	Single-molecule imaging and manipulation of biomolecular machines and systems. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 241-252.	2.4	12
27	Assembly of protein complexes restricts diffusion of Wnt3a proteins. <i>Communications Biology</i> , 2018, 1, 165.	4.4	23
28	Single-molecule diffusion-based estimation of ligand effects on G protein-coupled receptors. <i>Science Signaling</i> , 2018, 11, .	3.6	74
29	Automated single-molecule imaging in living cells. <i>Nature Communications</i> , 2018, 9, 3061.	12.8	55
30	Recent advances in FRET for the study of protein interactions and dynamics. <i>Current Opinion in Structural Biology</i> , 2017, 46, 16-23.	5.7	80
31	Mutation-Specific Mechanisms of Hyperactivation of Noonan Syndrome SOS Molecules Detected with Single-molecule Imaging in Living Cells. <i>Scientific Reports</i> , 2017, 7, 14153.	3.3	9
32	A novel sphingomyelin/cholesterol domain-specific probe reveals the dynamics of the membrane domains during virus release and in Niemann-Pick type C. <i>FASEB Journal</i> , 2017, 31, 1301-1322.	0.5	34
33	Single-molecule fluorescence imaging of RalGDS on cell surfaces during signal transduction from Ras to Ral. <i>Biophysics and Physicobiology</i> , 2017, 14, 75-84.	1.0	18
34	Conversion of graded phosphorylation into switch-like nuclear translocation via autoregulatory mechanisms in ERK signalling. <i>Nature Communications</i> , 2016, 7, 10485.	12.8	54
35	Cortical Polarity of the RING Protein PAR-2 Is Maintained by Exchange Rate Kinetics at the Cortical-Cytoplasmic Boundary. <i>Cell Reports</i> , 2016, 16, 2156-2168.	6.4	25
36	Switching of the positive feedback for RAS activation by a concerted function of SOS membrane association domains. <i>Biophysics and Physicobiology</i> , 2016, 13, 1-11.	1.0	12

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37	State transition analysis of spontaneous branch migration of the Holliday junction by photon-based single-molecule fluorescence resonance energy transfer. <i>Biophysical Chemistry</i> , 2016, 209, 21-27.	2.8	16
38	Interaction of a novel fluorescent GTP analogue with the small G-protein K-Ras. <i>Journal of Biochemistry</i> , 2016, 159, 41-48.	1.7	2
39	A Role for the Anti-Viral Host Defense Mechanism in the Phylogenetic Divergence in Baculovirus Evolution. <i>PLoS ONE</i> , 2016, 11, e0156394.	2.5	17
40	The significance of membrane fluidity of feeder cell-derived substrates for maintenance of iPS cell stemness. <i>Scientific Reports</i> , 2015, 5, 11386.	3.3	25
41	Origin of the low thermal isomerization rate of rhodopsin chromophore. <i>Scientific Reports</i> , 2015, 5, 11081.	3.3	45
42	Raman Spectral Dynamics of Single Cells in the Early Stages of Growth Factor Stimulation. <i>Biophysical Journal</i> , 2015, 108, 2148-2157.	0.5	16
43	Dynamic and unique nucleolar microenvironment revealed by fluorescence correlation spectroscopy. <i>FASEB Journal</i> , 2015, 29, 837-848.	0.5	19
44	Use of Engineered Nanoparticle-Based Fluorescence Methods for Live-Cell Phenomena. , 2014, , 153-169.		2
45	Quantitative live-cell imaging reveals spatio-temporal dynamics and cytoplasmic assembly of the 26S proteasome. <i>Nature Communications</i> , 2014, 5, 3396.	12.8	111
46	Single-Molecule Observation of the Ligand-Induced Population Shift of Rhodopsin, A G-Protein-Coupled Receptor. <i>Biophysical Journal</i> , 2014, 106, 915-924.	0.5	16
47	Positive Feedback Within a Kinase Signaling Complex Functions as a Switch Mechanism for NF- κ B Activation. <i>Science</i> , 2014, 344, 760-764.	12.6	87
48	Raman and Autofluorescence Spectrum Dynamics along the HRG-Induced Differentiation Pathway of MCF-7 Cells. <i>Biophysical Journal</i> , 2014, 107, 2221-2229.	0.5	19
49	Power law relationship between cell cycle duration and cell volume in the early embryonic development of <i>Caenorhabditis elegans</i> . <i>Frontiers in Physiology</i> , 2014, 5, 529.	2.8	39
50	A bipolar functionality of Q/N-rich proteins: Lsm4 amyloid causes clearance of yeast prions. <i>MicrobiologyOpen</i> , 2013, 2, 415-430.	3.0	7
51	Photosystem II antenna phosphorylation-dependent protein diffusion determined by fluorescence correlation spectroscopy. <i>Scientific Reports</i> , 2013, 3, 2833.	3.3	20
52	Characterization of the Triplet State of Hybridization-Sensitive DNA Probe by Using Fluorescence Correlation Spectroscopy. <i>Journal of Physical Chemistry A</i> , 2013, 117, 27-33.	2.5	18
53	Non-Markovian properties and multiscale hidden Markovian network buried in single molecule time series. <i>Journal of Chemical Physics</i> , 2013, 139, 245101.	3.0	7
54	Optimality Conditions for Cell-Fate Heterogeneity That Maximize the Effects of Growth Factors in PC12 Cells. <i>PLoS Computational Biology</i> , 2013, 9, e1003320.	3.2	12

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55	Clearance of yeast eRF-3 prion [<i>PSI⁺</i>] by amyloid enlargement due to the imbalance between chaperone Ssa1 and cochaperone Sgt2. Translation, 2013, 1, e26574.	2.9	1
56	Rolling Circle Amplification in a Prokaryotic Translation System Using Small Circular RNA. Angewandte Chemie - International Edition, 2013, 52, 7004-7008.	13.8	75
57	Raman Spectroscopic Analysis of H ₂ O ₂ -Stimulated Three-Dimensional Human Skin Models Containing Asian, Black, and Caucasian Melanocytes. Journal of Spectroscopy, 2013, 2013, 1-6.	1.3	2
58	Single-Molecule Imaging Measurements of Protein-Protein Interactions in Living Cells. , 2013, , .		1
59	Regulation Mechanism of ErbB-Hergulin Interaction Shown by Single-molecule Kinetic Analysis in Living Cells. Seibutsu Butsuri, 2013, 53, 317-318.	0.1	3
60	Dynamically varying interactions between heregulin and ErbB proteins detected by single-molecule analysis in living cells. Proceedings of the National Academy of Sciences of the United States of America, 2012, 109, 13984-13989.	7.1	42
61	Radiationless deactivation of hybridization-sensitive DNA probe. Journal of Luminescence, 2012, 132, 2566-2571.	3.1	6
62	A protein switch with tunable steepness reconstructed in Escherichia coli cells with eukaryotic signaling proteins. Biochemical and Biophysical Research Communications, 2012, 421, 731-735.	2.1	3
63	Variational Bayes Analysis of a Photon-Based Hidden Markov Model for Single-Molecule FRET Trajectories. Biophysical Journal, 2012, 103, 1315-1324.	0.5	51
64	Microenvironments and different nanoparticle dynamics in living cells revealed by a standard nanoparticle. Journal of Controlled Release, 2012, 163, 315-321.	9.9	14
65	Local Nucleosome Dynamics Facilitate Chromatin Accessibility in Living Mammalian Cells. Cell Reports, 2012, 2, 1645-1656.	6.4	175
66	Visualizing specific protein glycoforms by transmembrane fluorescence resonance energy transfer. Nature Communications, 2012, 3, 907.	12.8	103
67	Live cell single-molecule detection in systems biology. Wiley Interdisciplinary Reviews: Systems Biology and Medicine, 2012, 4, 183-192.	6.6	21
68	Universal Caging Group for the in-Cell Detection of Glutathione Transferase Applied to ¹⁹ F NMR and Bioluminescent Probes. ChemBioChem, 2012, 13, 1428-1432.	2.6	17
69	[PSI ⁺] aggregate enlargement in rnp1 nonprion domain mutants, leading to a loss of prion in yeast. Genes To Cells, 2011, 16, 576-589.	1.2	15
70	Activation Kinetics of RAF Protein in the Ternary Complex of RAF, RAS-GTP, and Kinase on the Plasma Membrane of Living Cells. Journal of Biological Chemistry, 2011, 286, 36460-36468.	3.4	43
71	Single-Molecule Kinetic Analysis of Receptor Protein Tyrosine Kinases. , 2011, , 1-32.		1
72	Single-Molecule Analysis of Molecular Recognition Between Signaling Proteins RAS and RAF. , 2011, , 59-78.		0

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73	A RasGTP-Induced Conformational Change in C-RAF Is Essential for Accurate Molecular Recognition. <i>Biophysical Journal</i> , 2009, 97, 1277-1287.	0.5	35
74	Reduction-Triggered Fluorescent Amplification Probe for the Detection of Endogenous RNAs in Living Human Cells. <i>Bioconjugate Chemistry</i> , 2009, 20, 1026-1036.	3.6	80
75	Single-Molecule Imaging of Fluorescent Proteins Expressed in Living Cells. <i>Methods in Molecular Biology</i> , 2009, 544, 451-460.	0.9	14
76	Single-Molecule Kinetics of Cell Signaling Reactions. <i>Seibutsu Butsuri</i> , 2009, 49, 187-191.	0.1	0
77	Multiple Mechanisms for Accumulation of Myosin II Filaments at the Equator During Cytokinesis. <i>Traffic</i> , 2008, 9, 2089-2099.	2.7	54
78	Construction of Two Color Semiconductor Quantum Dots Wire by utilizing the complementarity of DNA. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	0
79	Multiple-state reactions between the epidermal growth factor receptor and Grb2 as observed by using single-molecule analysis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 18013-18018.	7.1	65
80	Rho small GTPase regulates the stability of individual focal adhesions: a FRET-based visualization of GDP/GTP exchange on small GTPases. <i>Biophysics (Nagoya-shi, Japan)</i> , 2007, 3, 63-73.	0.4	1
81	Imaging single molecules in living cells for systems biology. <i>Molecular Systems Biology</i> , 2006, 2, 56.	7.2	54
82	Formation of signal transduction complexes during immobile phase of NGFR movements. <i>Biochemical and Biophysical Research Communications</i> , 2006, 342, 316-322.	2.1	34
83	Synthesis of Long-template DNA Using Enzymatic Reaction for Regular Alignment of Au-nanoparticles. <i>Chemistry Letters</i> , 2006, 35, 1290-1291.	1.3	5
84	Epidermal growth factor-regulated activation of Rac GTPase enhances CD44 cleavage by metalloproteinase disintegrin ADAM10. <i>Biochemical Journal</i> , 2006, 395, 65-71.	3.7	55
85	Single-molecule analysis of epidermal growth factor binding on the surface of living cells. <i>EMBO Journal</i> , 2006, 25, 4215-4222.	7.8	133
86	Covalent immobilization of epidermal growth factor molecules for single-molecule imaging analysis of intracellular signaling. <i>Biomaterials</i> , 2006, 27, 3343-3350.	11.4	33
87	TspMI, a thermostable isoschizomer of XmaI (5'â€²C/CCGGG3'â€²): characterization and single molecule imaging with DNA. <i>Applied Microbiology and Biotechnology</i> , 2006, 72, 917-923.	3.6	6
88	Trafficking of a Ligand-Receptor Complex on the Growth Cones as an Essential Step for the Uptake of Nerve Growth Factor at the Distal End of the Axon: A Single-Molecule Analysis. <i>Journal of Neuroscience</i> , 2005, 25, 2181-2191.	3.6	60
89	Single-Molecule Analysis of Epidermal Growth Factor Signaling that Leads to Ultrasensitive Calcium Response. <i>Biophysical Journal</i> , 2005, 88, 3720-3730.	0.5	60
90	Engagement of CD44 Promotes Rac Activation and CD44 Cleavage during Tumor Cell Migration. <i>Journal of Biological Chemistry</i> , 2004, 279, 4541-4550.	3.4	130

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91	Single-molecule measurement in living cells. <i>TrAC - Trends in Analytical Chemistry</i> , 2004, 23, 587-594.	11.4	9
92	EGF signalling amplification induced by dynamic clustering of EGFR. <i>Biochemical and Biophysical Research Communications</i> , 2004, 324, 1143-1149.	2.1	95
93	Single- and Multiple-Molecule Dynamics of the Signaling from H-Ras to cRaf-1 Visualized on the Plasma Membrane of Living Cells. <i>ChemPhysChem</i> , 2003, 4, 748-753.	2.1	66
94	Optical Bioimaging: From Living Tissue to a Single Molecule: Single-Molecule Visualization of Cell Signaling Processes of Epidermal Growth Factor Receptor. <i>Journal of Pharmacological Sciences</i> , 2003, 93, 253-258.	2.5	17
95	Single-molecule visualization in cell biology. <i>Nature Reviews Molecular Cell Biology</i> , 2003, Suppl, SS1-5.	37.0	45
96	Total Internal Reflection Fluorescence Microscopy for Single-molecule Imaging in Living Cells.. <i>Cell Structure and Function</i> , 2002, 27, 357-365.	1.1	88
97	Single-Molecule Analysis of Chemotactic Signaling in Dictyostelium Cells. <i>Science</i> , 2001, 294, 864-867.	12.6	316
98	Single-Molecule Analysis of Intracellular Signal Processing. The Proceedings of the Bioengineering Conference Annual Meeting of BED/JSME, 2001, 2001.13, 30-31.	0.0	0
99	Single-Molecule Imaging of Signaling Molecules in Living Cells. <i>Single Molecules</i> , 2000, 1, 159-163.	0.9	39
100	Single-molecule imaging of EGFR signalling on the surface of living cells. <i>Nature Cell Biology</i> , 2000, 2, 168-172.	10.3	816
101	Reconstitution of Brefeldin A-induced Golgi Tubulation and Fusion with the Endoplasmic Reticulum in Semi-Intact Chinese Hamster Ovary Cells. <i>Molecular Biology of the Cell</i> , 2000, 11, 3073-3087.	2.1	43
102	Single-Molecule Imaging of Signaling Molecules in Living Cells. , 2000, 1, 159.		1
103	Single-Molecule Imaging of Signaling Molecules in Living Cells. <i>Single Molecules</i> , 2000, 1, 159-163.	0.9	1
104	Cytoplasmic Regulation of the Movement of the Plasma Membrane Proteins by the Membrane-Skeleton.. <i>Seibutsu Butsuri</i> , 1999, 39, 10-13.	0.1	0
105	Structure of the Erythrocyte Membrane Skeleton as Observed by Atomic Force Microscopy. <i>Biophysical Journal</i> , 1998, 74, 2171-2183.	0.5	123
106	Cytoplasmic Regulation of the Movement of E-Cadherin on the Free Cell Surface as Studied by Optical Tweezers and Single Particle Tracking: Corraling and Tethering by the Membrane Skeleton. <i>Journal of Cell Biology</i> , 1998, 140, 1227-1240.	5.2	221
107	Regulation Mechanism of the Lateral Diffusion of Band 3 in Erythrocyte Membranes by the Membrane Skeleton. <i>Journal of Cell Biology</i> , 1998, 142, 989-1000.	5.2	195
108	Chapter 10 Application of Laser Tweezers to Studies of the Fences and Tethers of the Membrane Skeleton that Regulate the Movements of Plasma Membrane Proteins. <i>Methods in Cell Biology</i> , 1997, 55, 173-194.	1.1	26

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109	Comparison of two-photon excitation laser scanning microscopy with UV-confocal laser scanning microscopy in three-dimensional calcium imaging using the fluorescence indicator Indo-1. <i>Journal of Microscopy</i> , 1997, 185, 9-20.	1.8	67
110	Cell surface organization by the membrane skeleton. <i>Current Opinion in Cell Biology</i> , 1996, 8, 566-574.	5.4	365
111	Barriers for lateral diffusion of transferrin receptor in the plasma membrane as characterized by receptor dragging by laser tweezers: fence versus tether. <i>Journal of Cell Biology</i> , 1995, 129, 1559-1574.	5.2	199
112	Compartmentalized structure of the plasma membrane for receptor movements as revealed by a nanometer-level motion analysis. <i>Journal of Cell Biology</i> , 1994, 125, 1251-1264.	5.2	258
113	Development of a streak-camera-based time-resolved microscope fluorometer and its application to studies of membrane fusion in single cells. <i>Biochemistry</i> , 1991, 30, 6517-6527.	2.5	21
114	Development of time-resolved microfluorimetry and its application to studies of cellular membranes. , 1990, 1204, 776.		1
115	Subpopulations of Endosomes Generated at Sequential Stages in the Endocytic Pathway of Asialoganglioside-Containing Ferrite Ligands in Rat Liver. <i>Journal of Biochemistry</i> , 1990, 107, 846-853.	1.7	8
116	Development Of A Time-Resolved Microfluorimeter With A Synchroscan Streak Camera And Its Application To Studies Of Cell Membranes. , 1988, 0909, 350.		3
117	A Novel Method for Isolating Specific Endocytic Vesicles Using Very Fine Ferrite Particles Coated with Biological Ligands and the High-Gradient Magnetic Separation Technique. <i>Journal of Biochemistry</i> , 1986, 100, 1481-1492.	1.7	16
118	Signal Transduction across the Plasma Membrane. , 0, , 99-116.		0
119	How to make FRET biosensors for Rab family GTPases. , 0, , .		2