

Naoto Yagi

List of Publications by Year in descending order

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Version: 2024-02-01

51
papers

1,267
citations

361413

20
h-index

361022

35
g-index

51
all docs

51
docs citations

51
times ranked

1342
citing authors

#	ARTICLE	IF	CITATIONS
1	Establishing Functional Residual Capacity at Birth: The Effect of Sustained Inflation and Positive End-Expiratory Pressure in a Preterm Rabbit Model. <i>Pediatric Research</i> , 2009, 65, 537-541.	2.3	178
2	Coexistence of two domains in intercellular lipid matrix of stratum corneum. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2006, 1758, 1830-1836.	2.6	84
3	X-ray refraction-enhanced imaging and a method for phase retrieval for a simple object. <i>Journal of Synchrotron Radiation</i> , 2002, 9, 160-165.	2.4	80
4	Present status of high flux beamline (BL40XU) at SPring-8. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2001, 467-468, 674-677.	1.6	69
5	Construction and Commissioning of A 248 m-long Beamline with X-ray Undulator Light Source. <i>AIP Conference Proceedings</i> , 2004, , .	0.4	64
6	Synchrotron Radiation Imaging for Advancing Our Understanding of Cardiovascular Function. <i>Circulation Research</i> , 2013, 112, 209-221.	4.5	63
7	Optical Properties of In Situ Eye Lenses Measured with X-Ray Talbot Interferometry: A Novel Measure of Growth Processes. <i>PLoS ONE</i> , 2011, 6, e25140.	2.5	57
8	The eye lens: age-related trends and individual variations in refractive index and shape parameters. <i>Oncotarget</i> , 2015, 6, 30532-30544.	1.8	46
9	Age-related changes in eye lens biomechanics, morphology, refractive index and transparency. <i>Aging</i> , 2019, 11, 12497-12531.	3.1	44
10	The use of a Hamamatsu X-ray image intensifier with a cooled CCD as a solution X-ray scattering detector. <i>Journal of Synchrotron Radiation</i> , 1999, 6, 1106-1114.	2.4	42
11	An X-Ray Diffraction Study on Early Structural Changes in Skeletal Muscle Contraction. <i>Biophysical Journal</i> , 2003, 84, 1093-1102.	0.5	40
12	<i>In Vivo</i> X-Ray Imaging Reveals Improved Airway Surface Hydration after a Therapy Designed for Cystic Fibrosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2014, 190, 469-472.	5.6	31
13	Refraction-enhanced tomography of mouse and rabbit lungs. <i>Medical Physics</i> , 2005, 32, 2787-2792.	3.0	30
14	Structural analysis of cell membrane complex of a hair fibre by micro-beam X-ray diffraction. <i>Journal of Applied Crystallography</i> , 2005, 38, 274-279.	4.5	28
15	Effects of Sustained Length-Dependent Activation on In Situ Cross-Bridge Dynamics in Rat Hearts. <i>Biophysical Journal</i> , 2007, 93, 4319-4329.	0.5	28
16	Sarcomere-length dependence of lattice volume and radial mass transfer of myosin cross-bridges in rat papillary muscle. <i>Pflugers Archiv European Journal of Physiology</i> , 2004, 448, 153-160.	2.8	27
17	An X-Ray Diffraction Study on Mouse Cardiac Cross-Bridge Function In Vivo: Effects of Adrenergic β_2 -Stimulation. <i>Biophysical Journal</i> , 2006, 90, 1723-1728.	0.5	26
18	X-ray Diffraction from a Left Ventricular Wall of Rat Heart. <i>Biophysical Journal</i> , 2004, 86, 2286-2294.	0.5	25

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19	Methods for dynamic synchrotron X-ray respiratory imaging in live animals. <i>Journal of Synchrotron Radiation</i> , 2020, 27, 164-175.	2.4	22
20	A large-area CMOS imager as an X-ray detector for synchrotron radiation experiments. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 347-352.	2.4	21
21	Structure of amyloid fibrils of hen egg white lysozyme studied by microbeam X-ray diffraction. <i>International Journal of Biological Macromolecules</i> , 2009, 45, 86-90.	7.5	21
22	CCD-based X-ray area detector for time-resolved diffraction experiments. <i>Journal of Synchrotron Radiation</i> , 2004, 11, 456-461.	2.4	20
23	Structural Changes in the Muscle Thin Filament during Contractions Caused by Single and Double Electrical Pulses. <i>Journal of Molecular Biology</i> , 2008, 383, 1019-1036.	4.2	20
24	X-ray diffraction analysis of the effects of myosin regulatory light chain phosphorylation and butanedione monoxime on skinned skeletal muscle fibers. <i>American Journal of Physiology - Cell Physiology</i> , 2016, 310, C692-C700.	4.6	19
25	Knocking-in the R142C mutation in transglutaminase 1 disrupts the stratum corneum barrier and postnatal survival of mice. <i>Journal of Dermatological Science</i> , 2012, 65, 196-206.	1.9	18
26	Structural Changes of Actin-Bound Myosin Heads after a Quick Length Change in Frog Skeletal Muscle. <i>Biophysical Journal</i> , 2005, 89, 1150-1164.	0.5	17
27	Myosin Heads Are Displaced from Actin Filaments in the In Situ Beating Rat Heart in Early Diabetes. <i>Biophysical Journal</i> , 2013, 104, 1065-1072.	0.5	16
28	Chronic Rho-kinase inhibition improves left ventricular contractile dysfunction in early type-1 diabetes by increasing myosin cross-bridge extension. <i>Cardiovascular Diabetology</i> , 2015, 14, 92.	6.8	14
29	A Modeling Approach for Investigating Opto-Mechanical Relationships in the Human Eye Lens. <i>IEEE Transactions on Biomedical Engineering</i> , 2020, 67, 999-1006.	4.2	12
30	Development of SPACE-II for rapid sample exchange at SPring-8 macromolecular crystallography beamlines. <i>Acta Crystallographica Section D: Structural Biology</i> , 2020, 76, 155-165.	2.3	12
31	Cross-Bridge and Calcium Behavior in Ferret Papillary Muscle in Different Thyroid States.. <i>The Japanese Journal of Physiology</i> , 2001, 51, 319-326.	0.9	12
32	Structural Changes of Cross-Bridges on Transition from Isometric to Shortening State in Frog Skeletal Muscle. <i>Biophysical Journal</i> , 2006, 91, 4110-4120.	0.5	10
33	Investigation of Imaging Properties of Mouse Eyes Using X-ray Phase Contrast Tomography. <i>AIP Conference Proceedings</i> , 2010, , .	0.4	10
34	A Structural Origin of Latency Relaxation in Frog Skeletal Muscle. <i>Biophysical Journal</i> , 2007, 92, 162-171.	0.5	8
35	Oxysterol Compounds in Mouse Mutant $\hat{\pm}A$ - and $\hat{\pm}B$ -Crystallin Lenses Can Improve the Optical Properties of the Lens. , 2022, 63, 15.		8
36	Cell compaction is not required for the development of gradient refractive index profiles in the embryonic chick lens. <i>Experimental Eye Research</i> , 2020, 197, 108112.	2.6	7

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37	Development of an X-ray imaging detector for high-energy X-ray microtomography. Journal of Synchrotron Radiation, 2020, 27, 934-940.	2.4	7
38	Structural changes in rod outer segments of frog and mouse after illumination. Experimental Eye Research, 2013, 116, 395-401.	2.6	6
39	Aquaporins Have Regional Functions in Development of Refractive Index in the Zebrafish Eye Lens. , 2021, 62, 23.		6
40	Microbeam X-ray diffraction study of lipid structure in stratum corneum of human skin. PLoS ONE, 2020, 15, e0233131.	2.5	5
41	EphA2 Affects Development of the Eye Lens Nucleus and the Gradient of Refractive Index. , 2022, 63, 2.		5
42	Radial mass transfer of cross-bridges in a tetanized ferret heart muscle. Pflugers Archiv European Journal of Physiology, 2002, 444, 38-42.	2.8	3
43	Single grating x-ray imaging for dynamic biological systems. , 2012, , .		3
44	An X-ray diffraction study on a single rod outer segment from frog retina. Journal of Synchrotron Radiation, 2012, 19, 574-578.	2.4	2
45	Improved in-vivo airway gene transfer via magnetic-guidance, with protocol development informed by synchrotron imaging. Scientific Reports, 2022, 12, .	3.3	1
46	X-ray Diffraction Studies on the Structural Origin of Dynamic Tension Recovery Following Ramp-Shaped Releases in High-Ca Rigor Muscle Fibers. International Journal of Molecular Sciences, 2020, 21, 1244.	4.1	0
47	Estimation of places of production of porcelains of unknown origins excavated at the Mietsu Naval Facility site based on differences in the solubility of trace metals during the elutriation process. Journal of Archaeological Science: Reports, 2021, 36, 102823.	0.5	0
48	Microbeam X-ray diffraction study of lipid structure in stratum corneum of human skin. , 2020, 15, e0233131.		0
49	Microbeam X-ray diffraction study of lipid structure in stratum corneum of human skin. , 2020, 15, e0233131.		0
50	Microbeam X-ray diffraction study of lipid structure in stratum corneum of human skin. , 2020, 15, e0233131.		0
51	Microbeam X-ray diffraction study of lipid structure in stratum corneum of human skin. , 2020, 15, e0233131.		0