Yoshinori Fujiyoshi

List of Publications by Year in Descending Order

194 papers	16,123 citations	57 h-index	125 g-index
204 ext. papers	17,497 ext. citations	8.9 avg, IF	6.27 L-index

#	Paper	IF	Citations
194	Structures of human pannexin-1 in nanodiscs reveal gating mediated by dynamic movement of the N terminus and phospholipids.. *Science Signaling*, **2022**, 15, eabg6941	8.8	6
193	On the reduction in the effects of radiation damage to two-dimensional crystals of organic and biological molecules at liquid-helium temperature.. *Ultramicroscopy*, **2022**, 237, 113512	3.1	1
192	Cell-based flow cytometry assay for simultaneous detection of multiple autoantibodies in a single serum sample.. *Analytical Biochemistry*, **2022**, 114721	3.1	
191	Discovery of anti-inflammatory physiological peptides that promote tissue repair by reinforcing epithelial barrier formation. *Science Advances*, **2021**, 7, eabj6895	14.3	0
190	Leucine Dehydrogenase: Structure and Thermostability. *Sub-Cellular Biochemistry*, **2021**, 96, 355-372	5.5	0
189	Development of a deep learning-based method to identify "good" regions of a cryo-electron microscopy grid. *Biophysical Reviews*, **2020**, 12, 349-354	3.7	4
188	Crystal structure of a human plasma membrane phospholipid flippase. *Journal of Biological Chemistry*, **2020**, 295, 10180-10194	5.4	29
187	Cryo-EM structures of undocked innexin-6 hemichannels in phospholipids. *Science Advances*, **2020**, 6, eaax3157	14.3	16
186	Structural analysis of sphingosine 1-phosphate receptor. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2020**, 93, 3-P-360	0	
185	A native prokaryotic voltage-dependent calcium channel with a novel selectivity filter sequence. *ELife*, **2020**, 9,	8.9	11
184	Transport Cycle of Plasma Membrane Flippase ATP11C by Cryo-EM. *Cell Reports*, **2020**, 32, 108208	10.6	24
183	A single K-binding site in the crystal structure of the gastric proton pump. *ELife*, **2019**, 8,	8.9	11
182	Morphologic determinant of tight junctions revealed by claudin-3 structures. *Nature Communications*, **2019**, 10, 816	17.4	29
181	Structural insights into thermostabilization of leucine dehydrogenase from its atomic structure by cryo-electron microscopy. *Journal of Structural Biology*, **2019**, 205, 11-21	3.4	11
180	Enhancement of the thermostability of mouse claudin-3 on complex formation with the carboxyl-terminal region of Clostridium perfringens enterotoxin improves crystal quality. *Acta Crystallographica Section F, Structural Biology Communications*, **2018**, 74, 150-155	1.1	1
179	Crystal structures of the gastric proton pump. *Nature*, **2018**, 556, 214-218	50.4	55
178	Optimized expression and purification of NavAb provide the structural insight into the voltage dependence. *FEBS Letters*, **2018**, 592, 274-283	3.8	8

177	Drug Rescuing by Cryo-EM. *Proceedings for Annual Meeting of the Japanese Pharmacological Society*, **2018**, WCP2018, SY16-2	0	
176	Crystal structures of claudins: insights into their intermolecular interactions. *Annals of the New York Academy of Sciences*, **2017**, 1397, 25-34	6.5	22
175	The cryo-EM structure of gastric H,K-ATPase with bound BYK99, a high-affinity member of K-competitive, imidazo[1,2-a]pyridine inhibitors. *Scientific Reports*, **2017**, 7, 6632	4.9	9
174	X-ray structures of endothelin ET receptor bound to clinical antagonist bosentan and its analog. *Nature Structural and Molecular Biology*, **2017**, 24, 758-764	17.6	45
173	Structure of the C. elegans Innexin-6 Gap Junction Channel. *Microscopy and Microanalysis*, **2017**, 23, 1104-1105	0.5	
172	Structural Physiology of Membrane Proteins. *Membrane*, **2017**, 42, 164-169	0	
171	Two-dimensional crystal structure of aquaporin-4 bound to the inhibitor acetazolamide. *Microscopy (Oxford, England)*, **2016**, 65, 177-84	1.3	10
170	Cryo-electron microscopy for structure analyses of membrane proteins in the lipid bilayer. *Current Opinion in Structural Biology*, **2016**, 39, 71-78	8.1	7
169	Hexadecameric structure of an invertebrate gap junction channel. *Journal of Molecular Biology*, **2016**, 428, 1227-1236	6.5	27
168	Control of Spontaneous Ca2+ Transients Is Critical for Neuronal Maturation in the Developing Neocortex. *Cerebral Cortex*, **2016**, 26, 106-117	5.1	51
167	Claudin-21 Has a Paracellular Channel Role at Tight Junctions. *Molecular and Cellular Biology*, **2016**, 36, 954-64	4.8	24
166	Characterization of physiological phenotypes of dentate gyrus synapses of PDZ1/2 domain-deficient PSD-95-knockin mice. *European Journal of Neuroscience*, **2016**, 43, 618-25	3.5	
165	Molecular determinants of prokaryotic voltage-gated sodium channels for recognition of local anesthetics. *FEBS Journal*, **2016**, 283, 2881-95	5.7	3
164	Atomic structure of the innexin-6 gap junction channel determined by cryo-EM. *Nature Communications*, **2016**, 7, 13681	17.4	71
163	Thermostabilization of the Human Endothelin Type B Receptor. *Journal of Molecular Biology*, **2016**, 428, 2265-2274	6.5	9
162	Activation mechanism of endothelin ET receptor by endothelin-1. *Nature*, **2016**, 537, 363-368	50.4	103
161	GraDeR: Membrane Protein Complex Preparation for Single-Particle Cryo-EM. *Structure*, **2015**, 23, 1769-1775	5.7	73
160	Development of the field of structural physiology. *Proceedings of the Japan Academy Series B: Physical and Biological Sciences*, **2015**, 91, 447-68	4	2

159	P1Structure-Guided Drug Development based on Cryo-Electron Microscopy. *Microscopy (Oxford, England)*, **2015**, 64, i2-i2	1.3	
158	An intracellular domain with a novel sequence regulates cell surface expression and synaptic clustering of leucine-rich repeat transmembrane proteins in hippocampal neurons. *Journal of Neurochemistry*, **2015**, 134, 618-28	6	6
157	Tight junctions. Structural insight into tight junction disassembly by Clostridium perfringens enterotoxin. *Science*, **2015**, 347, 775-8	33.3	123
156	Model for the architecture of claudin-based paracellular ion channels through tight junctions. *Journal of Molecular Biology*, **2015**, 427, 291-7	6.5	108
155	Bovine F1Fo ATP synthase monomers bend the lipid bilayer in 2D membrane crystals. *ELife*, **2015**, 4, e06119	8.9	59
154	Moyamoya disease-associated protein mysterin/RNF213 is a novel AAA+ ATPase, which dynamically changes its oligomeric state. *Scientific Reports*, **2014**, 4, 4442	4.9	71
153	Crystal structure of a claudin provides insight into the architecture of tight junctions. *Science*, **2014**, 344, 304-7	33.3	229
152	Water channel structures analysed by electron crystallography. *Biochimica Et Biophysica Acta - General Subjects*, **2014**, 1840, 1605-13	4	23
151	Systematic comparison of molecular conformations of H+,K+-ATPase reveals an important contribution of the A-M2 linker for the luminal gating. *Journal of Biological Chemistry*, **2014**, 289, 30590-30601	5.4	8
150	Two alternative conformations of a voltage-gated sodium channel. *Journal of Molecular Biology*, **2013**, 425, 4074-88	6.5	49
149	The four-transmembrane protein IP39 of Euglena forms strands by a trimeric unit repeat. *Nature Communications*, **2013**, 4, 1766	17.4	19
148	Ligand binding of PDZ domains has various roles in the synaptic clustering of SAP102 and PSD-95. *Neuroscience Letters*, **2013**, 533, 44-9	3.3	9
147	Future directions of electron crystallography. *Methods in Molecular Biology*, **2013**, 955, 551-68	1.4	6
146	Low dose techniques and cryo-electron microscopy. *Methods in Molecular Biology*, **2013**, 955, 103-18	1.4	7
145	Visualization of two distinct states of disassembly in the bacterial V-ATPase from Thermus thermophilus. *Microscopy (Oxford, England)*, **2013**, 62, 467-74	1.3	11
144	Carbon sandwich preparation preserves quality of two-dimensional crystals for cryo-electron microscopy. *Microscopy (Oxford, England)*, **2013**, 62, 597-606	1.3	11
143	Oligomeric structure and functional characterization of Caenorhabditis elegans Innexin-6 gap junction protein. *Journal of Biological Chemistry*, **2013**, 288, 10513-21	5.4	24
142	Novel dichromatic chromatophores in the integument of the mandarin fish Synchiropus splendidus. *Biological Bulletin*, **2013**, 224, 14-7	1.5	16

141	Gating movement of acetylcholine receptor caught by plunge-freezing. *Journal of Molecular Biology* , **2012**, 422, 617-634	6.5	143
140	Impaired synaptic clustering of postsynaptic density proteins and altered signal transmission in hippocampal neurons, and disrupted learning behavior in PDZ1 and PDZ2 ligand binding-deficient PSD-95 knockin mice. *Molecular Brain*, **2012**, 5, 43	4.5	37
139	Cryo-EM structure of gastric H+,K+-ATPase with a single occupied cation-binding site. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18401-6	11.5	31
138	The C-terminal helical bundle of the tetrameric prokaryotic sodium channel accelerates the inactivation rate. *Nature Communications*, **2012**, 3, 793	17.4	22
137	Conformational rearrangement of gastric H(+),K(+)-ATPase induced by an acid suppressant. *Nature Communications*, **2011**, 2, 155	17.4	58
136	Water permeability and characterization of aquaporin-11. *Journal of Structural Biology*, **2011**, 174, 315-20	3.4	84
135	Electron tomographic analysis of gap junctions in lateral giant fibers of crayfish. *Journal of Structural Biology*, **2011**, 175, 49-61	3.4	9
134	Asymmetric configurations and N-terminal rearrangements in connexin26 gap junction channels. *Journal of Molecular Biology*, **2011**, 405, 724-35	6.5	56
133	Two-dimensional kinetics of inter-connexin interactions from single-molecule force spectroscopy. *Journal of Molecular Biology*, **2011**, 412, 72-9	6.5	10
132	Integumental reddish-violet coloration owing to novel dichromatic chromatophores in the teleost fish, Pseudochromis diadema. *Pigment Cell and Melanoma Research*, **2011**, 24, 614-7	4.5	22
131	Structural physiology based on electron crystallography. *Protein Science*, **2011**, 20, 806-17	6.3	10
130	Multilineage-differentiating stress-enduring (Muse) cells are a primary source of induced pluripotent stem cells in human fibroblasts. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 9875-80	11.5	217
129	Arrangement and mobility of the voltage sensor domain in prokaryotic voltage-gated sodium channels. *Journal of Biological Chemistry*, **2011**, 286, 7409-17	5.4	13
128	Electron crystallography for structural and functional studies of membrane proteins. *Microscopy (Oxford, England)*, **2011**, 60 Suppl 1, S149-59	1.3	16
127	Comparative study of the gating motif and C-type inactivation in prokaryotic voltage-gated sodium channels. *Journal of Biological Chemistry*, **2010**, 285, 3685-3694	5.4	52
126	Human umbilical cord-derived mesenchymal stromal cells differentiate into functional Schwann cells that sustain peripheral nerve regeneration. *Journal of Neuropathology and Experimental Neurology*, **2010**, 69, 973-85	3.1	83
125	Structural and functional characterization of H+, K+-ATPase with bound fluorinated phosphate analogs. *Journal of Structural Biology*, **2010**, 170, 60-8	3.4	24
124	Influence of the cytoplasmic domains of aquaporin-4 on water conduction and array formation. *Journal of Molecular Biology*, **2010**, 402, 669-81	6.5	17

123	Evidence for lateral mobility of voltage sensors in prokaryotic voltage-gated sodium channels. *Biochemical and Biophysical Research Communications*, **2010**, 399, 341-6	3.4	4
122	Electron crystallography and aquaporins. *Methods in Enzymology*, **2010**, 483, 91-119	1.7	8
121	Unique multipotent cells in adult human mesenchymal cell populations. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 8639-43	11.5	338
120	3P117 The integrity of the bovine heart NADH-ubiquinone oxidoreductase responsible for the quality of the 2D crystals.(Membrane proteins,The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2010**, 50, S165	0	
119	3P118 The effects of detergents for quality of 2D crystal of bovine heart NADH-ubiquinone oxidoreductase.(Membrane proteins,The 48th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2010**, 50, S165	0	
118	Structural Biology of Neural Systems. *Seibutsu Butsuri*, **2010**, 50, 276-281	0	
117	Structure and Inhibitor of Water Channel in Brain **2010**, 179-204		
116	The AQP structure and functional implications. *Handbook of Experimental Pharmacology*, **2009**, 31-56	3.2	59
115	Triple N-glycosylation in the long S5-P loop regulates the activation and trafficking of the Kv12.2 potassium channel. *Journal of Biological Chemistry*, **2009**, 284, 33139-50	5.4	12
114	Reconstruction of the P2X(2) receptor reveals a vase-shaped structure with lateral tunnels above the membrane. *Structure*, **2009**, 17, 266-75	5.2	17
113	Inter-subunit interaction of gastric H+,K+-ATPase prevents reverse reaction of the transport cycle. *EMBO Journal*, **2009**, 28, 1637-43	13	70
112	Structure of the connexin 26 gap junction channel at 3.5 A resolution. *Nature*, **2009**, 458, 597-602	50.4	537
111	Calyculin A-induced neurite retraction is critically dependent on actomyosin activation but not on polymerization state of microtubules. *Biochemical and Biophysical Research Communications*, **2009**, 390, 1160-6	3.4	7
110	Acetazolamide reversibly inhibits water conduction by aquaporin-4. *Journal of Structural Biology*, **2009**, 166, 16-21	3.4	109
109	Mechanism of aquaporin-4㊽ fast and highly selective water conduction and proton exclusion. *Journal of Molecular Biology*, **2009**, 389, 694-706	6.5	103
108	Unusual thermal disassembly of the SPFH domain oligomer from Pyrococcus horikoshii. *Biophysical Journal*, **2009**, 97, 2034-43	2.9	21
107	????????????????. *Kagaku To Seibutsu*, **2009**, 47, 786-793	0	
106	Sendai virus F glycoprotein induces IL-6 production in dendritic cells in a fusion-independent manner. *FEBS Letters*, **2008**, 582, 1325-9	3.8	23

105	Neuromyelitis optica and anti-aquaporin-4 antibodies measured by an enzyme-linked immunosorbent assay. *Journal of Neuroimmunology*, **2008**, 196, 181-7	3.5	96
104	Electron crystallography of proteins in membranes. *Current Opinion in Structural Biology*, **2008**, 18, 587-92	8.1	29
103	Structural analysis of 2D crystals of gastric H+,K+-ATPase in different states of the transport cycle. *Journal of Structural Biology*, **2008**, 162, 219-28	3.4	12
102	Pleomorphic configuration of the trimeric capsid proteins of Rice dwarf virus that allows formation of both the outer capsid and tubular crystals. *Journal of Molecular Biology*, **2008**, 383, 252-65	6.5	8
101	Formation of aquaporin-4 arrays is inhibited by palmitoylation of N-terminal cysteine residues. *Biochimica Et Biophysica Acta - Biomembranes*, **2008**, 1778, 1181-9	3.8	72
100	Junction-forming aquaporins. *Current Opinion in Structural Biology*, **2008**, 18, 229-35	8.1	76
99	Dual inhibition of SNARE complex formation by tomosyn ensures controlled neurotransmitter release. *Journal of Cell Biology*, **2008**, 183, 323-37	7.3	60
98	Projection structure of a N-terminal deletion mutant of connexin 26 channel with decreased central pore density. *Cell Communication and Adhesion*, **2008**, 15, 85-93		30
97	1P-022 Crystal structure of human gap junction channel(The 46th Annual Meeting of the Biophysical Society of Japan). *Seibutsu Butsuri*, **2008**, 48, S24	0	
96	Dodecamer rotor ring defines H+/ATP ratio for ATP synthesis of prokaryotic V-ATPase from Thermus thermophilus. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 20256-61	11.5	69
95	Simulation of charge effects on density maps obtained by high-resolution electron crystallography. *Journal of Electron Microscopy*, **2007**, 56, 131-40		16
94	Three-dimensional structure of a human connexin26 gap junction channel reveals a plug in the vestibule. *Proceedings of the National Academy of Sciences of the United States of America*, **2007**, 104, 10034-9	11.5	159
93	2P289 Large mobility of S4 helix in voltage-gated ion channel revealed by cysteine-scanning(Native and artificial biomembranes,Oral Presentations). *Seibutsu Butsuri*, **2007**, 47, S185	0	
92	1P195 The analysis of neurite retraction caused by calyculin A(Neurons and sensory system,Poster Presentations). *Seibutsu Butsuri*, **2007**, 47, S72	0	
91	2P290 The bacterial voltage-gated sodium channel family has various channel properties(Native and artificial biomembranes,Oral Presentations). *Seibutsu Butsuri*, **2007**, 47, S185	0	
90	Aquaporin-11 containing a divergent NPA motif has normal water channel activity. *Biochimica Et Biophysica Acta - Biomembranes*, **2007**, 1768, 688-93	3.8	117
89	The TRPC3 channel has a large internal chamber surrounded by signal sensing antennas. *Journal of Molecular Biology*, **2007**, 367, 373-83	6.5	77
88	Essential contribution of the ligand-binding beta B/beta C loop of PDZ1 and PDZ2 in the regulation of postsynaptic clustering, scaffolding, and localization of postsynaptic density-95. *Journal of Neuroscience*, **2006**, 26, 763-74	6.6	20

87	Implications of the aquaporin-4 structure on array formation and cell adhesion. *Journal of Molecular Biology*, **2006**, 355, 628-39	6.5	320
86	Structural basis for detoxification and oxidative stress protection in membranes. *Journal of Molecular Biology*, **2006**, 360, 934-45	6.5	124
85	Two-dimensional crystallization and analysis of projection images of intact Thermus thermophilus V-ATPase. *Journal of Structural Biology*, **2006**, 153, 200-6	3.4	11
84	2P374 Ciliary motility change induced by neurotransmitters on rat brain ependymal cells(44. Neuro-biophysics,Poster Session,Abstract,Meeting Program of EABS & BSJ 2006). *Seibutsu Butsuri*, **2006**, 46, S389	0	
83	Neurosteroid pregnenolone sulfate enhances glutamatergic synaptic transmission by facilitating presynaptic calcium currents at the calyx of Held of immature rats. *European Journal of Neuroscience*, **2006**, 24, 1955-66	3.5	24
82	Electron tomography reveals diverse conformations of integrin alphaIIbbeta3 in the active state. *Journal of Structural Biology*, **2005**, 150, 259-67	3.4	51
81	Proteomic analysis revealed a novel synaptic proline-rich membrane protein (PRR7) associated with PSD-95 and NMDA receptor. *Biochemical and Biophysical Research Communications*, **2005**, 327, 183-91	3.4	23
80	Expression and localization of an exogenous G protein-coupled receptor fused with the rhodopsin C-terminal sequence in the retinal rod cells of knockin mice. *Experimental Eye Research*, **2005**, 80, 859-69	3.7	5
79	Lipid-protein interactions in double-layered two-dimensional AQP0 crystals. *Nature*, **2005**, 438, 633-8	50.4	541
78	Characterization and application of monoclonal antibodies against human endothelin B receptor expressed in insect cells. *Biotechnology Letters*, **2004**, 26, 293-9	3	5
77	Improved specimen preparation for cryo-electron microscopy using a symmetric carbon sandwich technique. *Journal of Structural Biology*, **2004**, 146, 325-33	3.4	97
76	Inositol 1,4,5-trisphosphate receptor contains multiple cavities and L-shaped ligand-binding domains. *Journal of Molecular Biology*, **2004**, 336, 155-64	6.5	89
75	Structure and Function of Channels. *Seibutsu Butsuri*, **2004**, 44, 126-129	0	
74	Regulated interaction of endothelin B receptor with caveolin-1. *FEBS Journal*, **2003**, 270, 1816-27		42
73	Structure and gating mechanism of the acetylcholine receptor pore. *Nature*, **2003**, 423, 949-55	50.4	1065
72	Structural genomics of membrane proteins. *Accounts of Chemical Research*, **2003**, 36, 199-206	24.3	19
71	Roles of Met-34, Cys-64, and Arg-75 in the assembly of human connexin 26. Implication for key amino acid residues for channel formation and function. *Journal of Biological Chemistry*, **2003**, 278, 1807-16	5.4	84
70	Structure and function of water channels. *Current Opinion in Structural Biology*, **2002**, 12, 509-15	8.1	227

69	Aquaporin water channels--from atomic structure to clinical medicine. *Journal of Physiology*, **2002**, 542, 3-16	3.9	839
68	Ligand binding of the second PDZ domain regulates clustering of PSD-95 with the Kv1.4 potassium channel. *Journal of Biological Chemistry*, **2002**, 277, 3640-6	5.4	42
67	Functional role of internal water molecules in rhodopsin revealed by X-ray crystallography. *Proceedings of the National Academy of Sciences of the United States of America*, **2002**, 99, 5982-7	11.5	650
66	A new technique to co-localise membrane proteins with Homer/vesl. *Biochemical and Biophysical Research Communications*, **2002**, 295, 756-65	3.4	4
65	Crystal structure of the Homer 1 family conserved region reveals the interaction between the EVH1 domain and own proline-rich motif. *Journal of Molecular Biology*, **2002**, 318, 1117-26	6.5	29
64	Activation of the nicotinic acetylcholine receptor involves a switch in conformation of the alpha subunits. *Journal of Molecular Biology*, **2002**, 319, 1165-76	6.5	220
63	Three Dimensional Structure of Sodium Channel : Structure Determination by Single Particle Reconstruction. *Seibutsu Butsuri*, **2002**, 42, 24-27	0	1
62	Molecular basis of water selectivity on aquaporin-1. *Kidney International*, **2001**, 60, 399	9.9	1
61	The voltage-sensitive sodium channel is a bell-shaped molecule with several cavities. *Nature*, **2001**, 409, 1047-51	50.4	235
60	Two-dimensional crystals: a powerful approach to assess structure, function and dynamics of membrane proteins. *FEBS Letters*, **2001**, 504, 166-72	3.8	74
59	Structural determinants of water permeation through aquaporin-1. *Nature*, **2000**, 407, 599-605	50.4	1405
58	Phytoreovirus T = 1 core plays critical roles in organizing the outer capsid of T = 13 quasi-equivalence. *Virology*, **2000**, 271, 18-25	3.6	17
57	The three-dimensional map of microsomal glutathione transferase 1 at 6 A resolution. *EMBO Journal*, **2000**, 19, 6311-6	13	37
56	Electron Crystallography of a Small Membrane-Bound Enzyme, Microsomal Glutathione Transferase. *Microscopy and Microanalysis*, **2000**, 6, 232-233	0.5	
55	The fold of human aquaporin 1. *Journal of Molecular Biology*, **2000**, 300, 987-94	6.5	30
54	W276 mutation in the endothelin receptor subtype B impairs Gq coupling but not Gi or Go coupling. *Biochemistry*, **2000**, 39, 686-92	3.2	26
53	Molecular structure of proton pump revealed with electron crystallography. *FASEB Journal*, **1999**, 13 Suppl 2, S191-4	0.9	2
52	Influence of various nucleotides on the in situ crystallization of Ca2+-ATPase. *Biochimica Et Biophysica Acta - Biomembranes*, **1999**, 1415, 361-8	3.8	1

51	Interactions of endothelin receptor subtypes A and B with Gi, Go, and Gq in reconstituted phospholipid vesicles. *Biochemistry*, **1999**, 38, 3090-9	3.2	48
50	The structure of bacteriorhodopsin at 3.0 A resolution based on electron crystallography: implication of the charge distribution. *Journal of Molecular Biology*, **1999**, 286, 861-82	6.5	234
49	The projection structure of the membrane protein microsomal glutathione transferase at 3 A resolution as determined from two-dimensional hexagonal crystals. *Journal of Molecular Biology*, **1999**, 288, 243-53	6.5	32
48	Nicotinic acetylcholine receptor at 4.6 A resolution: transverse tunnels in the channel wall. *Journal of Molecular Biology*, **1999**, 288, 765-86	6.5	422
47	The structure of aquaporin-1 at 4.5-A resolution reveals short alpha-helices in the center of the monomer. *Journal of Structural Biology*, **1999**, 128, 34-43	3.4	116
46	The structural study of membrane proteins by electron crystallography. *Advances in Biophysics*, **1998**, 35, 25-80		163
45	Projection map of the reaction center-light harvesting 1 complex from Rhodopseudomonas viridis at 10 A resolution. *FEBS Letters*, **1998**, 425, 505-8	3.8	43
44	Role of the outermost subdomain of Salmonella flagellin in the filament structure revealed by electron cryomicroscopy. *Journal of Molecular Biology*, **1998**, 284, 521-30	6.5	35
43	Expression, purification, and reconstitution of receptor for pituitary adenylate cyclase-activating polypeptide. large-scale purification of a functionally active G protein-coupled receptor produced in Sf9 insect cells. *Journal of Biological Chemistry*, **1998**, 273, 15464-73	5.4	38
42	The structural study of membrane proteins by electron crystallography. *Advances in Biophysics*, **1998**, 35, 25-80		52
41	The 3.0 A projection structure of microsomal glutathione transferase as determined by electron crystallography of p 21212 two-dimensional crystals. *Journal of Molecular Biology*, **1997**, 271, 751-8	6.5	38
40	Surface of bacteriorhodopsin revealed by high-resolution electron crystallography. *Nature*, **1997**, 389, 206-11	50.4	425
39	The three-dimensional structure of aquaporin-1. *Nature*, **1997**, 387, 624-7	50.4	400
38	High Resolution Structure of Bacteriorhodopsin Determined by Electron Crystallography. *Photochemistry and Photobiology*, **1997**, 66, 764-767	3.6	14
37	Characterization of human endothelin B receptor and mutant receptors expressed in insect cells. *FEBS Journal*, **1997**, 248, 139-48		29
36	Examination of the LeafScan 45, a line-illuminating micro-densitometer, for its use in electron crystallography. *Ultramicroscopy*, **1997**, 68, 109-121	3.1	16
35	Two-dimensional crystals of the Kdp-ATPase of Escherichia coli. *FEBS Letters*, **1996**, 396, 172-6	3.8	10
34	Direct interaction of flagellin termini essential for polymorphic ability of flagellar filament. *Proceedings of the National Academy of Sciences of the United States of America*, **1996**, 93, 15108-13	11.5	46

33	Structure analysis of biological macromolecules by electron microscopy.. *Seibutsu Butsuri*, **1996**, 36, 221-225		
32	A method for 2D crystallization of soluble proteins at liquid-liquid interface. *Ultramicroscopy*, **1995**, 57, 345-54	3.1	35
31	Electron cryo-microscopic studies on micellar shape and size of surfactin, an anionic lipopeptide. *Colloids and Surfaces B: Biointerfaces*, **1995**, 5, 43-48	6	41
30	Cryogenic Transmission Electron Microscopic Studies of Micellar Structure Correlated with Solution Viscosity on Perfluorooctyl Sufonates and Their Mixtures with a Nonionic Surfactant. *Langmuir*, **1995**, 11, 2361-2366	4	28
29	The structure of the R-type straight flagellar filament of Salmonella at 9 A resolution by electron cryomicroscopy. *Journal of Molecular Biology*, **1995**, 249, 69-87	6.5	131
28	A new method to measure bilayer thickness: cryo-electron microscopy of frozen hydrated liposomes and image simulation. *Micron*, **1994**, 25, 141-9	2.3	59
27	Atomic model of plant light-harvesting complex by electron crystallography. *Nature*, **1994**, 367, 614-21	50.4	1820
26	Dark-field electron microscopy of Langmuir-Blodgett films of fatty acids and their barium salts. *Thin Solid Films*, **1993**, 223, 358-367	2.2	9
25	A pH induced two-dimensional crystal of membrane-bound Na+,K(+)-ATPase of dog kidney. *FEBS Letters*, **1993**, 320, 17-22	3.8	13
24	Functional signal peptide reduces bilayer thickness of phosphatidylcholine liposomes. *Biochemistry*, **1992**, 31, 8747-54	3.2	26
23	A method for observing cross-sectional views of biomembranes. *Ultramicroscopy*, **1992**, 45, 253-61	3.1	7
22	Development of a superfluid helium stage for high-resolution electron microscopy. *Ultramicroscopy* , **1991**, 38, 241-251	3.1	175
21	Image deconvolution of a single high-resolution electron micrograph. *Acta Crystallographica Section A: Foundations and Advances*, **1990**, 46, 459-463		14
20	Holes in a stearic acid monolayer observed by dark-field electron microscopy. *Nature*, **1987**, 327, 319-321	50.4	76
19	Lattice images from ultrathin sections of cellulose microfibrils in the cell wall of Valonia macrophysa Kütz. *Planta*, **1985**, 166, 161-8	4.7	125
18	Improved high resolution image processing of bright field electron micrographs. *Ultramicroscopy*, **1985**, 17, 87-103	3.1	57
17	Direct Molecular Imaging Of Low Dimensional Solids By High Resolution Electron Microscopy. *Molecular Crystals and Liquid Crystals*, **1985**, 125, 103-112		8
16	High resolution imaging and interpretation of regular and irregular structures in n-niobium pentoxide crystal. *Ultramicroscopy*, **1984**, 15, 139-149	3.1	4

15	Electron microscopy of tRNA crystals. II. 4 A resolution diffraction pattern and substantial stability to radiation damage. *Journal of Molecular Biology*, **1984**, 172, 347-54	6.5	7
14	Electron microscopy of tRNA crystals. *Ultramicroscopy*, **1983**, 12, 201-211	3.1	4
13	Surface pressure dependence of monolayer structure of poly-?-benzyloxycarbonyl-l-lysine. *Journal of Colloid and Interface Science*, **1983**, 91, 267-271	9.3	43
12	High-resolution electron microscopy of structural defects in organic crystals. *Journal of Crystal Growth*, **1983**, 65, 511-517	1.6	21
11	Cross-linking study on skeletal muscle actin: properties of suberimidate-treated actin. *Journal of Biochemistry*, **1982**, 91, 1999-2012	3.1	11
10	Surface enhanced Raman scattering of citrate ions adsorbed on gold sol particles. *Surface Science*, **1982**, 119, 150-158	1.8	46
9	Visualization of the DNA thread packing within bacteriophage T4 heads. *Journal of Ultrastructure Research*, **1982**, 79, 235-40		6
8	The observation of molecular orientations in crystal defects and the growth mechanism of thin phthalocyanine films. *The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography*, **1982**, 38, 356-362		40
7	Fixation of skeletal muscle actin in F-state by chemical cross-linking with bis-imidoesters. *Biochemical and Biophysical Research Communications*, **1981**, 100, 988-94	3.4	3
6	Direct imaging of a double-strand DNA molecule. *Ultramicroscopy*, **1981**, 7, 189-92	3.1	23
5	Studies of poly-□methyl-l-glutamate monolayers by infrared ATR and transmission spectroscopy and electron microscopy. *Journal of Colloid and Interface Science*, **1981**, 84, 220-227	9.3	60
4	High-resolution TEM images of zinc phthalocyanine polymorphs in thin films. *The Acta Crystallographica Section A, Crystal Physics, Diffractionoretical and General Crystallography*, **1981**, 37, 692-697		58
3	A new method for optimal-resolution electron microscopy of radiation-sensitive specimens. *Ultramicroscopy*, **1980**, 5, 459-468	3.1	77
2	Digital reconstruction of bright field phase contrast images from high resolution electron micrographs. *Ultramicroscopy*, **1980**, 5, 479-503	3.1	45
1	Crystal structure of Ag □TCNQ. *Nature*, **1980**, 285, 95-97	50.4	52