Mitsuhiko Ikura

List of Publications by Citations

271 papers	26,326 citations	78 h-index	158 g-index
319 ext. papers	28,656 ext. citations	10 avg, IF	6.77 L-index

#	Paper	IF	Citations
271	Fluorescent indicators for Ca2+ based on green fluorescent proteins and calmodulin. *Nature*, **1997**, 388, 882-7	50.4	2710
270	Solution structure of a calmodulin-target peptide complex by multidimensional NMR. *Science*, **1992**, 256, 632-8	33.3	1256
269	Backbone dynamics of calmodulin studied by 15N relaxation using inverse detected two-dimensional NMR spectroscopy: the central helix is flexible. *Biochemistry*, **1992**, 31, 5269-78	3.2	884
268	A novel approach for sequential assignment of 1H, 13C, and 15N spectra of proteins: heteronuclear triple-resonance three-dimensional NMR spectroscopy. Application to calmodulin. *Biochemistry*, **1990**, 29, 4659-67	3.2	837
267	Molecular and structural basis of target recognition by calmodulin. *Annual Review of Biophysics and Biomolecular Structure*, **1995**, 24, 85-116		661
266	Calcium-induced conformational transition revealed by the solution structure of apo calmodulin. *Nature Structural and Molecular Biology*, **1995**, 2, 758-67	17.6	617
265	Structural basis of calcium-induced E-cadherin rigidification and dimerization. *Nature*, **1996**, 380, 360-4	50.4	591
264	Calmodulin in action: diversity in target recognition and activation mechanisms. *Cell*, **2002**, 108, 739-42	56.2	575
263	Calcium binding and conformational response in EF-hand proteins. *Trends in Biochemical Sciences*, **1996**, 21, 14-17	10.3	548
262	MazF cleaves cellular mRNAs specifically at ACA to block protein synthesis in Escherichia coli. *Molecular Cell*, **2003**, 12, 913-23	17.6	454
261	Molecular mechanics of calcium-myristoyl switches. *Nature*, **1997**, 389, 198-202	50.4	423
260	Calmodulin target database. *Journal of Structural and Functional Genomics*, **2000**, 1, 8-14		414
259	Cadherins in embryonic and neural morphogenesis. *Nature Reviews Molecular Cell Biology*, **2000**, 1, 91-100	38.7	378
258	Solution structure of the epithelial cadherin domain responsible for selective cell adhesion. *Science*, **1995**, 267, 386-9	33.3	376
257	Structural and mechanistic insights into STIM1-mediated initiation of store-operated calcium entry. *Cell*, **2008**, 135, 110-22	56.2	350
256	An efficient 3D NMR technique for correlating the proton and 15N backbone amide resonances with the alpha-carbon of the preceding residue in uniformly 15N/13C enriched proteins. *Journal of Biomolecular NMR*, **1991**, 1, 99-104	3	335
255	Stored Ca2+ depletion-induced oligomerization of stromal interaction molecule 1 (STIM1) via the EF-SAM region: An initiation mechanism for capacitive Ca2+ entry. *Journal of Biological Chemistry*, **2006**, 281, 35855-62	5.4	320

254	Sequestration of the membrane-targeting myristoyl group of recoverin in the calcium-free state. *Nature*, **1995**, 376, 444-7	50.4	292
253	The use of FRET imaging microscopy to detect protein-protein interactions and protein conformational changes in vivo. *Current Opinion in Structural Biology*, **2001**, 11, 573-8	8.1	286
252	Structure of the inositol 1,4,5-trisphosphate receptor binding core in complex with its ligand. *Nature*, **2002**, 420, 696-700	50.4	280
251	Isotope-filtered 2D NMR of a protein-peptide complex: study of a skeletal muscle myosin light chain kinase fragment bound to calmodulin. *Journal of the American Chemical Society*, **1992**, 114, 2433-2440	16.4	273
250	Cold-shock induced high-yield protein production in Escherichia coli. *Nature Biotechnology*, **2004**, 22, 877-82	44.5	258
249	Photo-induced peptide cleavage in the green-to-red conversion of a fluorescent protein. *Molecular Cell*, **2003**, 12, 1051-8	17.6	251
248	Dynamic and static interactions between p120 catenin and E-cadherin regulate the stability of cell-cell adhesion. *Cell*, **2010**, 141, 117-28	56.2	247
247	DREAM is a critical transcriptional repressor for pain modulation. *Cell*, **2002**, 108, 31-43	56.2	234
246	NMR structure of the histidine kinase domain of the E. coli osmosensor EnvZ. *Nature*, **1998**, 396, 88-92	50.4	229
245	Genetic polymorphism and protein conformational plasticity in the calmodulin superfamily: two ways to promote multifunctionality. *Proceedings of the National Academy of Sciences of the United States of America*, **2006**, 103, 1159-64	11.5	205
244	Solution structure of the homodimeric core domain of Escherichia coli histidine kinase EnvZ. *Nature Structural Biology*, **1999**, 6, 729-34		205
243	Diversity of conformational states and changes within the EF-hand protein superfamily. *Proteins: Structure, Function and Bioinformatics*, **1999**, 37, 499-507	4.2	200
242	Transcriptional/epigenetic regulator CBP/p300 in tumorigenesis: structural and functional versatility in target recognition. *Cellular and Molecular Life Sciences*, **2013**, 70, 3989-4008	10.3	198
241	A novel target recognition revealed by calmodulin in complex with Ca2+-calmodulin-dependent kinase kinase. *Nature Structural Biology*, **1999**, 6, 819-24		197
240	Rapid recording of 2D NMR spectra without phase cycling. Application to the study of hydrogen exchange in proteins. *Journal of Magnetic Resonance*, **1989**, 85, 393-399		196
239	Solution structure of a TBP-TAF(II)230 complex: protein mimicry of the minor groove surface of the TATA box unwound by TBP. *Cell*, **1998**, 94, 573-83	56.2	191
238	STIM1 couples to ORAI1 via an intramolecular transition into an extended conformation. *EMBO Journal*, **2011**, 30, 1678-89	13	183
237	FRET-based in vivo Ca2+ imaging by a new calmodulin-GFP fusion molecule. *Nature Structural Biology*, **2001**, 8, 1069-73		182

236	Proton-proton correlation via carbon-carbon couplings: a three-dimensional NMR approach for the assignment of aliphatic resonances in proteins labeled with carbon-13. *Journal of the American Chemical Society*, **1990**, 112, 888-889	16.4	181
235	Inhibition of RAS function through targeting an allosteric regulatory site. *Nature Chemical Biology*, **2017**, 13, 62-68	11.7	177
234	Secondary structure and side-chain 1H and 13C resonance assignments of calmodulin in solution by heteronuclear multidimensional NMR spectroscopy. *Biochemistry*, **1991**, 30, 9216-28	3.2	176
233	Amino-terminal myristoylation induces cooperative calcium binding to recoverin. *Journal of Biological Chemistry*, **1995**, 270, 4526-33	5.4	169
232	The LxxLL motif: a multifunctional binding sequence in transcriptional regulation. *Trends in Biochemical Sciences*, **2005**, 30, 66-9	10.3	159
231	STIM1/Orai1 coiled-coil interplay in the regulation of store-operated calcium entry. *Nature Communications*, **2013**, 4, 2963	17.4	152
230	NMR-based functional profiling of RASopathies and oncogenic RAS mutations. *Proceedings of the National Academy of Sciences of the United States of America*, **2013**, 110, 4574-9	11.5	152
229	Initial activation of STIM1, the regulator of store-operated calcium entry. *Nature Structural and Molecular Biology*, **2013**, 20, 973-81	17.6	150
228	The Bloom syndrome helicase BLM interacts with TRF2 in ALT cells and promotes telomeric DNA synthesis. *Human Molecular Genetics*, **2002**, 11, 3135-44	5.6	149
227	Detection of nuclear Overhauser effects between degenerate amide proton resonances by heteronuclear three-dimensional NMR spectroscopy. *Journal of the American Chemical Society*, **1990**, 112, 9020-9022	16.4	149
226	Stromal interaction molecule (STIM) 1 and STIM2 calcium sensing regions exhibit distinct unfolding and oligomerization kinetics. *Journal of Biological Chemistry*, **2009**, 284, 728-32	5.4	148
225	Oncogenic and RASopathy-associated K-RAS mutations relieve membrane-dependent occlusion of the effector-binding site. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6625-30	11.5	142
224	Structural and functional conservation of key domains in InsP3 and ryanodine receptors. *Nature*, **2012**, 483, 108-12	50.4	142
223	Crystal structure of the ligand binding suppressor domain of type 1 inositol 1,4,5-trisphosphate receptor. *Molecular Cell*, **2005**, 17, 193-203	17.6	142
222	Crystal structure of venus, a yellow fluorescent protein with improved maturation and reduced environmental sensitivity. *Journal of Biological Chemistry*, **2002**, 277, 50573-8	5.4	142
221	p120-catenin binding masks an endocytic signal conserved in classical cadherins. *Journal of Cell Biology*, **2012**, 199, 365-80	7.3	141
220	Monomeric Ecatenin links cadherin to the actin cytoskeleton. *Nature Cell Biology*, **2013**, 15, 261-73	23.4	138
219	The cadherin-catenin complex as a focal point of cell adhesion and signalling: new insights from three-dimensional structures. *BioEssays*, **2004**, 26, 497-511	4.1	138

218	Solution structure of calmodulin-W-7 complex: the basis of diversity in molecular recognition. *Journal of Molecular Biology*, **1998**, 276, 165-76	6.5	137
217	Crystal structure of the amino-terminal microtubule-binding domain of end-binding protein 1 (EB1). *Journal of Biological Chemistry*, **2003**, 278, 36430-4	5.4	136
216	Measurement of the exchange rates of rapidly exchanging amide protons: application to the study of calmodulin and its complex with a myosin light chain kinase fragment. *Journal of Biomolecular NMR*, **1991**, 1, 155-65	3	136
215	Light-dependent regulation of structural flexibility in a photochromic fluorescent protein. *Proceedings of the National Academy of Sciences of the United States of America*, **2008**, 105, 9227-32	11.5	132
214	Improved three-dimensional 1H-13C-1H correlation spectroscopy of a 13C-labeled protein using constant-time evolution. *Journal of Biomolecular NMR*, **1991**, 1, 299-304	3	129
213	Triple-resonance multidimensional NMR study of calmodulin complexed with the binding domain of skeletal muscle myosin light-chain kinase: indication of a conformational change in the central helix. *Biochemistry*, **1991**, 30, 5498-504	3.2	127
212	Three-dimensional structure of guanylyl cyclase activating protein-2, a calcium-sensitive modulator of photoreceptor guanylyl cyclases. *Journal of Biological Chemistry*, **1999**, 274, 19329-37	5.4	125
211	Biophysical characterization of the EF-hand and SAM domain containing Ca2+ sensory region of STIM1 and STIM2. *Biochemical and Biophysical Research Communications*, **2008**, 369, 240-6	3.4	122
210	Solution structure of the C-terminal core domain of human TFIIB: similarity to cyclin A and interaction with TATA-binding protein. *Cell*, **1995**, 82, 857-67	56.2	122
209	Three-dimensional triple-resonance NMR spectroscopy of isotopically enriched proteins. *Journal of Magnetic Resonance*, **1990**, 89, 496-514		118
208	The role of calcium-binding proteins in the control of transcription: structure to function. *BioEssays*, **2002**, 24, 625-36	4.1	117
207	Structural basis for the activation of microtubule assembly by the EB1 and p150Glued complex. *Molecular Cell*, **2005**, 19, 449-60	17.6	115
206	Auto-inhibitory role of the EF-SAM domain of STIM proteins in store-operated calcium entry. *Proceedings of the National Academy of Sciences of the United States of America*, **2011**, 108, 1337-42	11.5	108
205	Calcium-regulated DNA binding and oligomerization of the neuronal calcium-sensing protein, calsenilin/DREAM/KChIP3. *Journal of Biological Chemistry*, **2001**, 276, 41005-13	5.4	104
204	Identification of Mg2+-binding sites and the role of Mg2+ on target recognition by calmodulin. *Biochemistry*, **1997**, 36, 4309-16	3.2	92
203	Molecular basis of the isoform-specific ligand-binding affinity of inositol 1,4,5-trisphosphate receptors. *Journal of Biological Chemistry*, **2007**, 282, 12755-64	5.4	91
202	Target-induced conformational adaptation of calmodulin revealed by the crystal structure of a complex with nematode Ca(2+)/calmodulin-dependent kinase kinase peptide. *Journal of Molecular Biology*, **2001**, 312, 59-68	6.5	91
201	Structural insights into the regulatory mechanism of IP3 receptor. *Biochimica Et Biophysica Acta - Molecular Cell Research*, **2004**, 1742, 89-102	4.9	88

200	Structural basis for simultaneous binding of two carboxy-terminal peptides of plant glutamate decarboxylase to calmodulin. *Journal of Molecular Biology*, **2003**, 328, 193-204	6.5	88
199	An autoinhibited structure of Ecatenin and its implications for vinculin recruitment to adherens junctions. *Journal of Biological Chemistry*, **2013**, 288, 15913-25	5.4	86
198	A coiled-coil clamp controls both conformation and clustering of stromal interaction molecule 1 (STIM1). *Journal of Biological Chemistry*, **2014**, 289, 33231-44	5.4	85
197	Secondary structure of myristoylated recoverin determined by three-dimensional heteronuclear NMR: implications for the calcium-myristoyl switch. *Biochemistry*, **1994**, 33, 10743-53	3.2	85
196	Mg2+ and Ca2+ differentially regulate DNA binding and dimerization of DREAM. *Journal of Biological Chemistry*, **2005**, 280, 18008-14	5.4	84
195	Nuclear magnetic resonance studies on calmodulin: calcium-induced conformational change. *Biochemistry*, **1983**, 22, 2573-9	3.2	79
194	Crystal structure of type I ryanodine receptor amino-terminal beta-trefoil domain reveals a disease-associated mutation "hot spot" loop. *Proceedings of the National Academy of Sciences of the United States of America*, **2009**, 106, 11040-4	11.5	78
193	Biochemical and structural characterization of an intramolecular interaction in FOXO3a and its binding with p53. *Journal of Molecular Biology*, **2008**, 384, 590-603	6.5	78
192	Structural mechanism of transcriptional autorepression of the Escherichia coli RelB/RelE antitoxin/toxin module. *Journal of Molecular Biology*, **2008**, 380, 107-19	6.5	76
191	Structure and identification of ADP-ribose recognition motifs of APLF and role in the DNA damage response. *Proceedings of the National Academy of Sciences of the United States of America*, **2010**, 107, 9129-34	11.5	75
190	Crystallographic evidence for water-assisted photo-induced peptide cleavage in the stony coral fluorescent protein Kaede. *Journal of Molecular Biology*, **2007**, 372, 918-926	6.5	75
189	NMR-derived three-dimensional solution structure of protein S complexed with calcium. *Structure*, **1994**, 2, 107-22	5.2	74
188	Nuclear magnetic resonance evidence for Ca(2+)-induced extrusion of the myristoyl group of recoverin. *Journal of Biological Chemistry*, **1995**, 270, 30909-13	5.4	72
187	Structures of KIX domain of CBP in complex with two FOXO3a transactivation domains reveal promiscuity and plasticity in coactivator recruitment. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 6078-83	11.5	70
186	Identification and characterization of subfamily-specific signatures in a large protein superfamily by a hidden Markov model approach. *BMC Bioinformatics*, **2002**, 3, 1	3.6	69
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183	The RhoGEF GEF-H1 is required for oncogenic RAS signaling via KSR-1. *Cancer Cell*, **2014**, 25, 181-95	24.3	64

182	Mechanistic insight into the microtubule and actin cytoskeleton coupling through dynein-dependent RhoGEF inhibition. *Molecular Cell*, **2012**, 45, 642-55	17.6	64
181	Pre-formation of the semi-open conformation by the apo-calmodulin C-terminal domain and implications binding IQ-motifs. *Nature Structural and Molecular Biology*, **1996**, 3, 501-4	17.6	63
180	Inhibitory mechanism of Escherichia coli RelE-RelB toxin-antitoxin module involves a helix displacement near an mRNA interferase active site. *Journal of Biological Chemistry*, **2009**, 284, 14628-36	5.4	60
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170	Improved solvent suppression in one- and two-dimensional NMR spectra by convolution of time-domain data. *Journal of Magnetic Resonance*, **1989**, 84, 425-430		51
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165	Optimization of protein solubility and stability for protein nuclear magnetic resonance. *Methods in Enzymology*, **2001**, 339, 20-41	1.7	48

164	Structural insights into Ca2+-dependent regulation of inositol 1,4,5-trisphosphate receptors by CaBP1. *Journal of Biological Chemistry*, **2009**, 284, 2472-81	5.4	47
163	Inhibition of K-RAS4B by a Unique Mechanism of Action: Stabilizing Membrane-Dependent Occlusion of the Effector-Binding Site. *Cell Chemical Biology*, **2018**, 25, 1327-1336.e4	8.2	46
162	Characterization of the intrinsic and TSC2-GAP-regulated GTPase activity of Rheb by real-time NMR. *Science Signaling*, **2009**, 2, ra3	8.8	46
161	Missense mutation in immunodeficient patients shows the multifunctional roles of coiled-coil domain 3 (CC3) in STIM1 activation. *Proceedings of the National Academy of Sciences of the United States of America*, **2015**, 112, 6206-11	11.5	45
160	High-resolution structure of TBP with TAF1 reveals anchoring patterns in transcriptional regulation. *Nature Structural and Molecular Biology*, **2013**, 20, 1008-14	17.6	45
159	Interaction domains of Sos1/Grb2 are finely tuned for cooperative control of embryonic stem cell fate. *Cell*, **2013**, 152, 1008-20	56.2	45
158	Spectroscopic characterization of a high-affinity calmodulin-target peptide hybrid molecule. *Biochemistry*, **1996**, 35, 3508-17	3.2	44
157	Structure of calmodulin-target peptide complexes. *Current Opinion in Structural Biology*, **1993**, 3, 838-845	8.1	44
156	Calmodulin and STIM proteins: Two major calcium sensors in the cytoplasm and endoplasmic reticulum. *Biochemical and Biophysical Research Communications*, **2015**, 460, 5-21	3.4	43
155	Structural studies of inositol 1,4,5-trisphosphate receptor: coupling ligand binding to channel gating. *Journal of Biological Chemistry*, **2010**, 285, 36092-9	5.4	43
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153	Chemical constitution of safflor yellow B, a quinochalcone c-glycoside from the flower petals of .. *Tetrahedron Letters*, **1984**, 25, 2471-2474	2	43
152	Tyrosyl phosphorylation of KRAS stalls GTPase cycle via alteration of switch I and II conformation. *Nature Communications*, **2019**, 10, 224	17.4	43
151	Mechanistic insight into GPCR-mediated activation of the microtubule-associated RhoA exchange factor GEF-H1. *Nature Communications*, **2014**, 5, 4857	17.4	42
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148	Human general transcription factor TFIIB: conformational variability and interaction with VP16 activation domain. *Biochemistry*, **1998**, 37, 7941-51	3.2	41
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143	Radixin: cytoskeletal adopter and signaling protein. *International Journal of Biochemistry and Cell Biology*, **2004**, 36, 2131-6	5.6	37
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139	Evidence for calmodulin inter-domain compaction in solution induced by W-7 binding. *FEBS Letters*, **1999**, 442, 173-7	3.8	36
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133	Two Distinct Structures of Membrane-Associated Homodimers of GTP- and GDP-Bound KRAS4B Revealed by Paramagnetic Relaxation Enhancement. *Angewandte Chemie - International Edition*, **2020**, 59, 11037-11045	16.4	34
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127	Structural characterization of a blue chromoprotein and its yellow mutant from the sea anemone Cnidopus japonicus. *Journal of Biological Chemistry*, **2006**, 281, 37813-9	5.4	33
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