

Takuhiro Ito

List of Publications by Year in descending order

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48
papers

1,796
citations

257357

24
h-index

302012

39
g-index

57
all docs

57
docs citations

57
times ranked

2481
citing authors

#	ARTICLE	IF	CITATIONS
1	The Translation Inhibitor Rocaglamide Targets a Bimolecular Cavity between eIF4A and Polypurine RNA. <i>Molecular Cell</i> , 2019, 73, 738-748.e9.	4.5	128
2	Modular Architecture of the Bacteriophage T7 Primase Couples RNA Primer Synthesis to DNA Synthesis. <i>Molecular Cell</i> , 2003, 11, 1349-1360.	4.5	103
3	Crystal structure of eukaryotic translation initiation factor 2B. <i>Nature</i> , 2016, 531, 122-125.	13.7	103
4	Tertiary structure checkpoint at anticodon loop modification in tRNA functional maturation. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1109-1115.	3.6	97
5	Structural basis for mutual relief of the Rac guanine nucleotide exchange factor DOCK2 and its partner ELMO1 from their autoinhibited forms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 3305-3310.	3.3	95
6	ISRIB Blunts the Integrated Stress Response by Allosterically Antagonising the Inhibitory Effect of Phosphorylated eIF2 on eIF2B. <i>Molecular Cell</i> , 2021, 81, 88-103.e6.	4.5	93
7	Structural basis for eIF2B inhibition in integrated stress response. <i>Science</i> , 2019, 364, 495-499.	6.0	91
8	Solution Structure of Human Initiation Factor eIF2 $\hat{\imath}$ Reveals Homology to the Elongation Factor eEF1B. <i>Structure</i> , 2004, 12, 1693-1704.	1.6	82
9	Methyl transfer by substrate signaling from a knotted protein fold. <i>Nature Structural and Molecular Biology</i> , 2016, 23, 941-948.	3.6	74
10	Two enzymes bound to one transfer RNA assume alternative conformations for consecutive reactions. <i>Nature</i> , 2010, 467, 612-616.	13.7	57
11	Structural basis for methyl-donorâ€“dependent and sequence-specific binding to tRNA substrates by knotted methyltransferase TrmD. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, E4197-205.	3.3	54
12	Crystal structure of archaeal tRNA(m ¹ G37)methyltransferase aTrm5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 1274-1289.	1.5	53
13	Structure of an archaeal TYW1, the enzyme catalyzing the second step of wye-base biosynthesis. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2007, 63, 1059-1068.	2.5	44
14	HCV IRES Captures an Actively Translating 80S Ribosome. <i>Molecular Cell</i> , 2019, 74, 1205-1214.e8.	4.5	42
15	Solution structures of the first and second RNA-binding domains of human U2 small nuclear ribonucleoprotein particle auxiliary factor (U2AF65). <i>EMBO Journal</i> , 1999, 18, 4523-4534.	3.5	39
16	Dual targeting of DDX3 and eIF4A by the translation inhibitor rocaglamide A. <i>Cell Chemical Biology</i> , 2021, 28, 475-486.e8.	2.5	37
17	A Molecular Handoff between Bacteriophage T7 DNA Primase and T7 DNA Polymerase Initiates DNA Synthesis. <i>Journal of Biological Chemistry</i> , 2004, 279, 30554-30562.	1.6	36
18	Sensitivity enhancement in NMR of macromolecules by application of optimal control theory. <i>Journal of Biomolecular NMR</i> , 2005, 32, 23-30.	1.6	35

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19	Mapping of the Auto-inhibitory Interactions of Protein Kinase R by Nuclear Magnetic Resonance. <i>Journal of Molecular Biology</i> , 2006, 364, 352-363.	2.0	35
20	Trm5 and TrmD: Two Enzymes from Distinct Origins Catalyze the Identical tRNA Modification, m1G37. <i>Biomolecules</i> , 2017, 7, 32.	1.8	34
21	Differentiating analogous tRNA methyltransferases by fragments of the methyl donor. <i>Rna</i> , 2011, 17, 1236-1246.	1.6	33
22	JQ1 affects BRD2-dependent and independent transcription regulation without disrupting H4-hyperacetylated chromatin states. <i>Epigenetics</i> , 2018, 13, 410-431.	1.3	32
23	Crystallographic and mutational studies on the tRNA thiouridine synthetase TtuA. <i>Proteins: Structure, Function and Bioinformatics</i> , 2013, 81, 1232-1244.	1.5	28
24	RBFOX and SUP-12 sandwich a G base to cooperatively regulate tissue-specific splicing. <i>Nature Structural and Molecular Biology</i> , 2014, 21, 778-786.	3.6	27
25	Controlling the Fluorescence of Benzofuran-Modified Uracil Residues in Oligonucleotides by Triple-Helix Formation. <i>ChemBioChem</i> , 2015, 16, 167-176.	1.3	27
26	Crystal Structure of the β Subunit of Human Translation Initiation Factor 2B. <i>Journal of Molecular Biology</i> , 2009, 392, 937-951.	2.0	26
27	Genetic Code Expansion of the Silkworm <i>Bombyx mori</i> to Functionalize Silk Fiber. <i>ACS Synthetic Biology</i> , 2018, 7, 801-806.	1.9	26
28	Using codon optimization, chaperone co-expression, and rational mutagenesis for production and NMR assignments of human eIF2 β . <i>Journal of Biomolecular NMR</i> , 2004, 28, 357-367.	1.6	24
29	Dynamic interaction of poly(A)-binding protein with the ribosome. <i>Scientific Reports</i> , 2018, 8, 17435.	1.6	23
30	Crystal structure of eIF2B and insights into eIF2 β interactions. <i>FEBS Journal</i> , 2017, 284, 868-874.	2.2	21
31	eIF2B and the Integrated Stress Response: A Structural and Mechanistic View. <i>Biochemistry</i> , 2020, 59, 1299-1308.	1.2	21
32	eIF2B-capturing viral protein NSs suppresses the integrated stress response. <i>Nature Communications</i> , 2021, 12, 7102.	5.8	21
33	Cell-free synthesis of functional antibody fragments to provide a structural basis for antibody-antigen interaction. <i>PLoS ONE</i> , 2018, 13, e0193158.	1.1	20
34	Solution structure of an RNA fragment with the P7/P9.0 region and the 3'-terminal guanosine of the Tetrahymena group I intron. <i>Rna</i> , 2002, 8, 440-451.	1.6	17
35	Glial pathology in a novel spontaneous mutant mouse of the <i>Eif2b5</i> gene: a vanishing white matter disease model. <i>Journal of Neurochemistry</i> , 2020, 154, 25-40.	2.1	15
36	Crystal Structure of Methanocaldococcus jannaschii Trm4 Complexed with Sinefungin. <i>Journal of Molecular Biology</i> , 2010, 401, 323-333.	2.0	14

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37	Conformational alterations in unidirectional ion transport of a light-driven chloride pump revealed using X-ray free electron lasers. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	3.3	11
38	METTL18-mediated histidine methylation of RPL3 modulates translation elongation for proteostasis maintenance. ELife, 0, 11, .	2.8	11
39	Plasma-Assisted Biological Macromolecular Crystallization. Applied Physics Express, 2011, 4, 026201.	1.1	10
40	Incorporation of Halogenated Amino Acids into Antibody Fragments at Multiple Specific Sites Enhances Antigen Binding. ChemBioChem, 2021, 22, 120-123.	1.3	10
41	Structure of nondiscriminating glutamyl-tRNA synthetase from <i>Thermotoga maritima</i> . Acta Crystallographica Section D: Biological Crystallography, 2010, 66, 813-820.	2.5	9
42	Crystal structure of the eukaryotic translation initiation factor 2A from <i>Schizosaccharomyces pombe</i> . Journal of Structural and Functional Genomics, 2014, 15, 125-130.	1.2	8
43	The landscape of translational stall sites in bacteria revealed by monosome and disome profiling. Rna, 2022, 28, 290-302.	1.6	8
44	Crystal Structure of Okadaic Acid Binding Protein 2.1: A Sponge Protein Implicated in Cytotoxin Accumulation. ChemBioChem, 2015, 16, 1435-1439.	1.3	7
45	Solution structure of the first RNA recognition motif domain of human spliceosomal protein SF3b49 and its mode of interaction with a SF3b145 fragment. Protein Science, 2017, 26, 280-291.	3.1	5
46	Expression, purification, and crystallization of <i>Schizosaccharomyces pombe</i> eIF2B. Journal of Structural and Functional Genomics, 2016, 17, 33-38.	1.2	4
47	Resonance assignments of the $\hat{1}\pm$ subunit of human eukaryotic initiation factor 2 (helf2 $\hat{1}\pm$). Journal of Biomolecular NMR, 2007, 38, 173-173.	1.6	0
48	2P004 Crystallization of the complex of Gly-tRNA synthetase and tRNA(Gly) from <i>Pyrococcus horikoshii</i> (The 48th Annual Meeting of the Biophysical Society of Japan). Seibutsu Butsuri, 2010, 50, S82.	0.0	0