

# Yoshitaka Bessho

## List of Publications by Year in descending order

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68  
papers

2,263  
citations

236925

25  
h-index

233421

45  
g-index

68  
all docs

68  
docs citations

68  
times ranked

2730  
citing authors

#	ARTICLE	IF	CITATIONS
1	Transposable element in fish. <i>Nature</i> , 1996, 383, 30-30.	27.8	211
2	Imaging live cell in micro-liquid enclosure by X-ray laser diffraction. <i>Nature Communications</i> , 2014, 5, 3052.	12.8	183
3	Ribozyme-catalyzed tRNA aminoacylation. <i>Nature Structural Biology</i> , 2000, 7, 28-33.	9.7	164
4	Insertion of a novel transposable element in the tyrosinase gene is responsible for an albino mutation in the medaka fish, <i>Oryzias latipes</i> . <i>Molecular Genetics and Genomics</i> , 1995, 249, 400-405.	2.4	103
5	Tertiary structure checkpoint at anticodon loop modification in tRNA functional maturation. <i>Nature Structural and Molecular Biology</i> , 2009, 16, 1109-1115.	8.2	97
6	Structural basis for functional mimicry of long-variable-arm tRNA by transfer-messenger RNA. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2007, 104, 8293-8298.	7.1	96
7	Radiation and speciation of pelagic organisms during periods of global warming: the case of the common minke whale, <i>Balaenoptera acutorostrata</i> . <i>Molecular Ecology</i> , 2007, 16, 1481-1495.	3.9	83
8	Essentiality of threonylcarbamoyladenine (t <sup>6</sup> A), a universal tRNA modification, in bacteria. <i>Molecular Microbiology</i> , 2015, 98, 1199-1221.	2.5	72
9	Mitochondrial genes are found on minicircle DNA molecules in the mesozoan animal <i>Dicyema</i> 1 Edited by J. Karn. <i>Journal of Molecular Biology</i> , 1999, 286, 645-650.	4.2	61
10	Translation of Synonymous Codons in Family Boxes by <i>Mycoplasma capricolum</i> tRNAs with Unmodified Uridine or Adenosine at the First Anticodon Position. <i>Journal of Molecular Biology</i> , 1995, 251, 486-492.	4.2	57
11	Conservation of two distinct types of 100S ribosome in bacteria. <i>Genes To Cells</i> , 2013, 18, 554-574.	1.2	56
12	Planarian mitochondria II. The unique genetic code as deduced from cytochrome c oxidase subunit I gene sequences. <i>Journal of Molecular Evolution</i> , 1992, 34, 331-335.	1.8	55
13	A tRNA aminoacylation system for non-natural amino acids based on a programmable ribozyme. <i>Nature Biotechnology</i> , 2002, 20, 723-728.	17.5	54
14	<i>Aquifex aeolicus</i> tRNA (N2,N2-Guanine)-dimethyltransferase (Trm1) Catalyzes Transfer of Methyl Groups Not Only to Guanine 26 but Also to Guanine 27 in tRNA. <i>Journal of Biological Chemistry</i> , 2009, 284, 20467-20478.	3.4	54
15	Crystal structure of archaeal tRNA(m <sup>1</sup> G37)methyltransferase aTrm5. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 72, 1274-1289.	2.6	53
16	Crystal Structure of tRNA Adenosine Deaminase (TadA) from <i>Aquifex aeolicus</i> . <i>Journal of Biological Chemistry</i> , 2005, 280, 16002-16008.	3.4	49
17	Synthesis of Janus-Like Gold Nanoparticles with Hydrophilic/Hydrophobic Faces by Surface Ligand Exchange and Their Self-Assemblies in Water. <i>Langmuir</i> , 2015, 31, 4054-4062.	3.5	47
18	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

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19	Yolk/Shell Assembly of Gold Nanoparticles by Size Segregation in Solution. <i>Journal of the American Chemical Society</i> , 2016, 138, 3274-3277.	13.7	37
20	The Tyrosinase Gene from Medakafish: Transgenic Expression Rescues Albino Mutation. <i>Pigment Cell &amp; Melanoma Research</i> , 1998, 11, 283-290.	3.6	35
21	Planarian mitochondria I. Heterogeneity of cytochrome c oxidase subunit I gene sequences in the freshwater planarian, <i>Dugesia japonica</i> . <i>Journal of Molecular Evolution</i> , 1992, 34, 324-330.	1.8	33
22	Crystal Structure of tRNA N2,N2-Guanosine Dimethyltransferase Trm1 from <i>Pyrococcus horikoshii</i> . <i>Journal of Molecular Biology</i> , 2008, 383, 871-884.	4.2	30
23	Lack of peptide-release activity responding to codon UGA in <i>Mycoplasma capricolum</i> . <i>Nucleic Acids Research</i> , 1993, 21, 1335-1338.	14.5	29
24	X-ray crystal structure of a hypothetical Sua5 protein from <i>Sulfolobus tokodaii</i> strain 7. <i>Proteins: Structure, Function and Bioinformatics</i> , 2008, 70, 1108-1111.	2.6	29
25	Crystal Structures of Tyrosyl-tRNA Synthetases from Archaea. <i>Journal of Molecular Biology</i> , 2006, 355, 395-408.	4.2	27
26	Evolving genetic code. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2008, 84, 58-74.	3.8	27
27	Ribosomal protein L31 in <i>Escherichia coli</i> contributes to ribosome subunit association and translation, whereas short L31 cleaved by protease 7 reduces both activities. <i>Genes To Cells</i> , 2017, 22, 452-471.	1.2	27
28	Crystal structure of the probable haloacid dehalogenase PH0459 from <i>Pyrococcus horikoshii</i> OT3. <i>Protein Science</i> , 2006, 15, 373-377.	7.6	24
29	Life without tRNA <sup>Arg</sup> -adenosine deaminase TadA: evolutionary consequences of decoding the four CGN codons as arginine in <i>Mycoplasmas</i> and other Mollicutes. <i>Nucleic Acids Research</i> , 2013, 41, 6531-6543.	14.5	24
30	Serial crystallography captures dynamic control of sequential electron and proton transfer events in a flavoenzyme. <i>Nature Chemistry</i> , 2022, 14, 677-685.	13.6	24
31	Crystal Structure of the RNA 2-Phosphotransferase from <i>Aeropyrum pernix</i> K1. <i>Journal of Molecular Biology</i> , 2005, 348, 295-305.	4.2	23
32	Substrate tRNA Recognition Mechanism of a Multisite-specific tRNA Methyltransferase, <i>Aquifex aeolicus</i> Trm1, Based on the X-ray Crystal Structure. <i>Journal of Biological Chemistry</i> , 2011, 286, 35236-35246.	3.4	23
33	Crystal structure of hydrogenase maturing endopeptidase Hyl from <i>Escherichia coli</i> . <i>Biochemical and Biophysical Research Communications</i> , 2009, 389, 310-314.	2.1	21
34	Crystal structure of <i>Sulfolobus tokodaii</i> sua5 complexed with L-threonine and AMPPNP. <i>Proteins: Structure, Function and Bioinformatics</i> , 2011, 79, 2065-2075.	2.6	21
35	Structural Basis of the Initial Binding of tRNA <sup>Lys</sup> Lysidine Synthetase TilS with ATP and L-Lysine. <i>Structure</i> , 2007, 15, 1642-1653.	3.3	20
36	The crystal structure of leucyl/phenylalanyl-tRNA-protein transferase from <i>Escherichia coli</i> . <i>Protein Science</i> , 2007, 16, 528-534.	7.6	20

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37	Crystal Structure and Mutational Study of a Unique SpoU Family Archaeal Methylase that Forms 2â€²-O-Methylcytidine at Position 56 of tRNA. <i>Journal of Molecular Biology</i> , 2008, 375, 1064-1075.	4.2	20
38	Crystal structure of human myo-inositol monophosphatase 2, the product of the putative susceptibility gene for bipolar disorder, schizophrenia, and febrile seizures. <i>Proteins: Structure, Function and Bioinformatics</i> , 2007, 67, 732-742.	2.6	18
39	Crystal structure and RNA-binding analysis of the archaeal transcription factor NusA. <i>Biochemical and Biophysical Research Communications</i> , 2007, 355, 122-128.	2.1	17
40	Characterization and Structure of the Aquifex aeolicus Protein DUF752. <i>Journal of Biological Chemistry</i> , 2012, 287, 43950-43960.	3.4	15
41	Crystal Structure of Methanocaldococcus jannaschii Trm4 Complexed with Sinefungin. <i>Journal of Molecular Biology</i> , 2010, 401, 323-333.	4.2	14
42	Adaptation of intronic homing endonuclease for successful horizontal transmission. <i>FEBS Journal</i> , 2005, 272, 2487-2496.	4.7	13
43	Crystal structures of possible lysine decarboxylases from <i>Thermus thermophilus</i> HB8. <i>Protein Science</i> , 2008, 13, 3038-3042.	7.6	11
44	Thermostable Mismatch-Recognizing Protein MutS Suppresses Nonspecific Amplification during Polymerase Chain Reaction (PCR). <i>International Journal of Molecular Sciences</i> , 2013, 14, 6436-6453.	4.1	11
45	Binding and Enhanced Binding between Key Immunity Proteins TRAF6 and TIFA. <i>ChemBioChem</i> , 2019, 20, 140-146.	2.6	11
46	Cloning of the <i>Mycoplasma capricolum</i> gene encoding peptide-chain release factor. <i>Gene</i> , 1996, 169, 101-103.	2.2	10
47	Crystal structure of the manganese transport regulatory protein from <i>Escherichia coli</i> . <i>Proteins: Structure, Function and Bioinformatics</i> , 2009, 77, 741-746.	2.6	10
48	Crystal structure of tRNA m1A58 methyltransferase TrmI from <i>Aquifex aeolicus</i> in complex with S-adenosyl-L-methionine. <i>Journal of Structural and Functional Genomics</i> , 2014, 15, 173-180.	1.2	9
49	XFEL coherent diffraction imaging for weakly scattering particles using heterodyne interference. <i>AIP Advances</i> , 2020, 10, .	1.3	9
50	Crystal structure of the bifunctional tRNA modification enzyme MnmC from <i>Escherichia coli</i> . <i>Protein Science</i> , 2011, 20, 1105-1113.	7.6	8
51	Human DNA Polymerase $\beta$ Can Use a Noncanonical Mechanism for Multiple Mn <sup>2+</sup> -Mediated Functions. <i>Journal of the American Chemical Society</i> , 2019, 141, 8489-8502.	13.7	8
52	Crystal Structure of the tRNA Pseudouridine Synthase TruA from <i>Thermus Thermophilus</i> HB8. <i>RNA Biology</i> , 2006, 3, 115-121.	3.1	7
53	Twist and turn: a revised structural view on the unpaired bubble of class II CPD photolyase in complex with damaged DNA. <i>IUCr</i> , 2018, 5, 608-618.	2.2	7
54	Crystal structure of the hypothetical protein TTHA1013 from <i>Thermus thermophilus</i> HB8. <i>Proteins: Structure, Function and Bioinformatics</i> , 2005, 61, 1117-1120.	2.6	6

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55	Crystal structure of a predicted phosphoribosyltransferase (TT1426) from <i>Thermus thermophilus</i> HB8 at 2.01 Å resolution. <i>Protein Science</i> , 2005, 14, 823-827.	7.6	6
56	Structure of an archaeal homologue of the bacterial Fmu/RsmB/RrmB rRNA cytosine 5-methyltransferase. <i>Acta Crystallographica Section D: Biological Crystallography</i> , 2010, 66, 1301-1307.	2.5	6
57	Extending the potential of x-ray free-electron lasers to industrial applications— an initiatory attempt at coherent diffractive imaging on car-related nanomaterials. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2015, 48, 244008.	1.5	6
58	Phospho-Priming Confers Functionally Relevant Specificities for Rad53 Kinase Autophosphorylation. <i>Biochemistry</i> , 2017, 56, 5112-5124.	2.5	6
59	Complete Genome Sequence of <i>Thermus thermophilus</i> Strain HB5018, Isolated from Mine Hot Spring in Japan. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	5
60	Micro-liquid enclosure array and its semi-automated assembling system for x-ray free-electron laser diffractive imaging of samples in solution. <i>Review of Scientific Instruments</i> , 2020, 91, 083706.	1.3	4
61	Design of a liquid cell toward three-dimensional imaging of unidirectionally-aligned particles in solution using X-ray free-electron lasers. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 2622-2628.	2.8	3
62	Complete Genome Sequences of <i>Thermus thermophilus</i> Strains HB5002 and HB5008, Isolated from Mine Hot Spring in Japan. <i>Microbiology Resource Announcements</i> , 2021, 10, .	0.6	3
63	Development of Multilayer Focusing Mirror System for XFEL CDI Experiments of Biological Particles. <i>Microscopy and Microanalysis</i> , 2018, 24, 298-299.	0.4	2
64	<i>Vibrio cholerae</i> biofilm scaffolding protein RbmA shows an intrinsic, phosphate-dependent autoproteolysis activity. <i>IUBMB Life</i> , 2021, 73, 418-431.	3.4	2
65	Femtosecond X-ray Laser Reveals Intact Sea-Island Structures of Metastable Solid-State Electrolytes for Batteries. <i>Nano Letters</i> , 2022, 22, 4603-4607.	9.1	2
66	Crystal structure of the MazG-related nucleoside triphosphate pyrophosphohydrolase from <i>Thermotoga maritima</i> MSB8. <i>Journal of Structural and Functional Genomics</i> , 2015, 16, 81-89.	1.2	1
67	Coherent Imaging Using SACLA. <i>Nihon Kessho Gakkaishi</i> , 2017, 59, 18-23.	0.0	0
68	Nano-Imaging Under Controlled Environment Using SACLA. <i>The Review of Laser Engineering</i> , 2017, 45, 508.	0.0	0