

Yoshito Abe

List of Publications by Year in descending order

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80
papers

2,609
citations

331670

21
h-index

197818

49
g-index

80
all docs

80
docs citations

80
times ranked

2885
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Structural Basis of Presequence Recognition by the Mitochondrial Protein Import Receptor Tom20. <i>Cell</i> , 2000, 100, 551-560. | 28.9 | 493 |
| 2 | Human mitochondrial DNA is packaged with TFAM. <i>Nucleic Acids Research</i> , 2003, 31, 1640-1645. | 14.5 | 321 |
| 3 | Crystal structure of the anion exchanger domain of human erythrocyte band 3. <i>Science</i> , 2015, 350, 680-684. | 12.6 | 210 |
| 4 | Regulation of mitochondrial D-loops by transcription factor A and single-stranded DNA-binding protein. <i>EMBO Reports</i> , 2002, 3, 451-456. | 4.5 | 190 |
| 5 | Structure and Function of DnaA N-terminal Domains. <i>Journal of Biological Chemistry</i> , 2007, 282, 17816-17827. | 3.4 | 103 |
| 6 | NMR identification of the Tom20 binding segment in mitochondrial presequences. <i>Journal of Molecular Biology</i> , 2001, 306, 137-143. | 4.2 | 91 |
| 7 | Selective and reversible modification of kinase cysteines with chlorofluoroacetamides. <i>Nature Chemical Biology</i> , 2019, 15, 250-258. | 8.0 | 90 |
| 8 | DnaA Dynamics Are Coupled with Changes in Initial Origin Complexes Leading to Helicase Loading. <i>Journal of Biological Chemistry</i> , 2009, 284, 25038-25050. | 3.4 | 86 |
| 9 | Disulfide Bond Structure of Human Epidermal Growth Factor Receptor. <i>Journal of Biological Chemistry</i> , 1998, 273, 11150-11157. | 3.4 | 77 |
| 10 | Characterization of the N-Oligosaccharides Attached to the Atypical Asn-X-Cys Sequence of Recombinant Human Epidermal Growth Factor Receptor. <i>Journal of Biochemistry</i> , 2000, 127, 65-72. | 1.7 | 63 |
| 11 | Crystal Structure of <i>Tapes japonica</i> Lysozyme with Substrate Analogue. <i>Journal of Biological Chemistry</i> , 2007, 282, 27459-27467. | 3.4 | 57 |
| 12 | Molecular Basis and Functional Consequences of the Dominant Effects of the Mutant Band 3 on the Structure of Normal Band 3 in Southeast Asian Ovalocytosis. <i>Biochemistry</i> , 2002, 41, 3311-3320. | 2.5 | 44 |
| 13 | Effect of Salt Concentration on the pKa of Acidic Residues in Lysozyme. <i>Journal of Biochemistry</i> , 1995, 118, 946-952. | 1.7 | 40 |
| 14 | Structure of the Membrane Domain of Human Erythrocyte Anion Exchanger 1 Revealed by Electron Crystallography. <i>Journal of Molecular Biology</i> , 2010, 397, 179-189. | 4.2 | 40 |
| 15 | Mechanism for retardation of amyloid fibril formation by sugars in β 2-microglobulin protein. <i>Protein Science</i> , 2013, 22, 467-474. | 7.6 | 39 |
| 16 | Investigation of the Structural Basis for Thermostability of DNA-binding Protein HU from <i>Bacillus stearothermophilus</i> . <i>Journal of Biological Chemistry</i> , 1998, 273, 19982-19987. | 3.4 | 38 |
| 17 | Lysozyme requires fluctuation of the active site for the manifestation of activity. <i>Protein Engineering, Design and Selection</i> , 1994, 7, 743-748. | 2.1 | 35 |
| 18 | Structural and In Vitro Functional Analyses of Novel Plant-Produced Anti-Human PD1 Antibody. <i>Scientific Reports</i> , 2019, 9, 15205. | 3.3 | 34 |

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|----|--|-----|-----------|
| 19 | Histidine-834 of Human Erythrocyte Band 3 Has an Essential Role in the Conformational Changes That Occur during the Band 3-Mediated Anion Exchange. <i>Biochemistry</i> , 2003, 42, 12927-12932. | 2.5 | 30 |
| 20 | Crystal structure of a biologically functional form of PriB from <i>Escherichia coli</i> reveals a potential single-stranded DNA-binding site. <i>Biochemical and Biophysical Research Communications</i> , 2005, 326, 766-776. | 2.1 | 28 |
| 21 | Expression from engineered <i>Escherichia coli</i> chromosome and crystallographic study of archaeal N ₁ , N ₂ -diacetylchitobiose deacetylase. <i>FEBS Journal</i> , 2014, 281, 2584-2596. | 4.7 | 22 |
| 22 | Flexible Regions within the Membrane-Embedded Portions of Polytopic Membrane Proteins. <i>Biochemistry</i> , 2002, 41, 3852-3854. | 2.5 | 21 |
| 23 | Identification of Oxidized Methionine Sites in Erythrocyte Membrane Protein by Liquid Chromatography/Electrospray Ionization Mass Spectrometry Peptide Mapping. <i>Biochemistry</i> , 2006, 45, 12117-12124. | 2.5 | 20 |
| 24 | Solution structure of the rat P2X4 receptor head domain involved in inhibitory metal binding. <i>FEBS Letters</i> , 2015, 589, 680-686. | 2.8 | 20 |
| 25 | Massspectrometric Analyses of Transmembrane Proteins in Human Erythrocyte Membrane. <i>Journal of Biochemistry</i> , 2004, 136, 97-106. | 1.7 | 18 |
| 26 | Preparation and characterization of a monoclonal antibody against the refolded and functional extracellular domain of rat P2X4 receptor. <i>Journal of Biochemistry</i> , 2013, 153, 275-282. | 1.7 | 18 |
| 27 | Functional Characterization of Pembrolizumab Produced in <i>Nicotiana benthamiana</i> Using a Rapid Transient Expression System. <i>Frontiers in Plant Science</i> , 2021, 12, 736299. | 3.6 | 18 |
| 28 | Analysis of the Stabilization of Hen Lysozyme by Helix Macrodipole and Charged Side Chain Interaction. <i>Journal of Biochemistry</i> , 1997, 121, 1076-1081. | 1.7 | 16 |
| 29 | Residual Structures in the Acid-Unfolded States of α 6 Proteins Affect Amyloid Fibrillation. <i>Journal of Molecular Biology</i> , 2009, 392, 1033-1043. | 4.2 | 16 |
| 30 | The DnaA N-terminal domain interacts with Hda to facilitate replicase clamp-mediated inactivation of DnaA. <i>Environmental Microbiology</i> , 2013, 15, 3183-3195. | 3.8 | 16 |
| 31 | Structure and mechanism of the primosome protein DnaT functional structures for homotrimerization, dissociation of ssDNA from the PriB-ssDNA complex, and formation of the DnaT-ssDNA complex. <i>FEBS Journal</i> , 2014, 281, 5356-5370. | 4.7 | 16 |
| 32 | Preparation and Properties of a Lysozyme Derivative in Which Two Domains Are Cross-Linked Intramolecularly between Trp62 and Asp1011. <i>Journal of Biochemistry</i> , 1991, 110, 719-725. | 1.7 | 15 |
| 33 | Evidence for detection of rat P2X4 receptor expressed on cells by generating monoclonal antibodies recognizing the native structure. <i>Purinergic Signalling</i> , 2019, 15, 27-35. | 2.2 | 15 |
| 34 | DnaB helicase is recruited to the replication initiation complex via binding of DnaA domain I to the lateral surface of the DnaB N-terminal domain. <i>Journal of Biological Chemistry</i> , 2020, 295, 11131-11143. | 3.4 | 15 |
| 35 | The Functional Role of Arginine 901 at the C-Terminus of the Human Anion Transporter Band 3 Protein. <i>Journal of Biochemistry</i> , 2006, 139, 903-912. | 1.7 | 14 |
| 36 | Helical image reconstruction of the outward-open human erythrocyte band 3 membrane domain in tubular crystals. <i>Journal of Structural Biology</i> , 2010, 169, 406-412. | 2.8 | 14 |

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|----|---|-----|-----------|
| 37 | Role of the osmolyte taurine on the folding of a model protein, hen egg white lysozyme, under a crowding condition. <i>Amino Acids</i> , 2015, 47, 909-915. | 2.7 | 14 |
| 38 | Situation of Monomethoxypolyethylene Glycol Covalently Attached to Lysozyme. <i>Journal of Biochemistry</i> , 1996, 119, 1086-1093. | 1.7 | 13 |
| 39 | Evaluation of the conformational equilibrium of reduced hen egg lysozyme by antibodies to the native form. <i>Archives of Biochemistry and Biophysics</i> , 2010, 494, 145-150. | 3.0 | 13 |
| 40 | Tyrosine Sulfation Restricts the Conformational Ensemble of a Flexible Peptide, Strengthening the Binding Affinity for an Antibody. <i>Biochemistry</i> , 2018, 57, 4177-4185. | 2.5 | 13 |
| 41 | Domain separation and characterization of <i>PriC</i> , a replication restart primosome factor in <i>Escherichia coli</i> . <i>Genes To Cells</i> , 2013, 18, 723-732. | 1.2 | 12 |
| 42 | Factor G Utilizes a Carbohydrate-Binding Cleft That Is Conserved between Horseshoe Crab and Bacteria for the Recognition of β -1,3-D-Glucans. <i>Journal of Immunology</i> , 2009, 183, 3810-3818. | 0.8 | 11 |
| 43 | Kinetically trapped structure in the renaturation of reduced oxindolealanine 62 lysozyme. <i>Biochemistry</i> , 1995, 34, 16178-16185. | 2.5 | 10 |
| 44 | Functional analysis of CedA based on its structure: residues important in binding of DNA and RNA polymerase and in the cell division regulation. <i>Journal of Biochemistry</i> , 2016, 159, 217-223. | 1.7 | 10 |
| 45 | Evidence for a novel racemization process of an asparaginyl residue in mouse lysozyme under physiological conditions. <i>Cellular and Molecular Life Sciences</i> , 2005, 62, 199-205. | 5.4 | 9 |
| 46 | Basic and aromatic residues in the C-terminal domain of PriC are involved in ssDNA and SSB binding. <i>Journal of Biochemistry</i> , 2015, 157, 529-537. | 1.7 | 9 |
| 47 | Effects of His mutations on the fibrillation of amyloidogenic β 6 protein Wil under acidic and physiological conditions. <i>Biochemical and Biophysical Research Communications</i> , 2010, 391, 615-620. | 2.1 | 8 |
| 48 | The Structure of an Archaeal β -Glucosaminidase Provides Insight into Glycoside Hydrolase Evolution. <i>Journal of Biological Chemistry</i> , 2017, 292, 4996-5006. | 3.4 | 8 |
| 49 | Crystallization of Human Erythrocyte Band 3, the anion exchanger, at the International Space Station <i>Anal. Biochem.</i> <i>Analytical Biochemistry</i> , 2018, 559, 91-93. | 2.4 | 8 |
| 50 | Denatured Mammalian Protein Mixtures Exhibit Unusually High Solubility in Nucleic Acid-Free Pure Water. <i>PLoS ONE</i> , 2014, 9, e113295. | 2.5 | 7 |
| 51 | Inhibition of amyloid fibril formation in the variable domain of β 6 light chain mutant Wil caused by the interaction between its unfolded state and epigallocatechin-3-O-gallate. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2018, 1862, 2570-2578. | 2.4 | 7 |
| 52 | Involvement of histidine in complex formation of PriB and single-stranded DNA. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2014, 1844, 299-307. | 2.3 | 6 |
| 53 | Effect on catalysis by replacement of catalytic residue from hen egg white lysozyme to <i>Venerupis philippinarum</i> lysozyme*. <i>Protein Science</i> , 2016, 25, 1637-1647. | 7.6 | 6 |
| 54 | Mutation of His 834 in human anion exchanger 1 affects substrate binding. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2010, 1798, 903-908. | 2.6 | 5 |

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|----|---|-----|-----------|
| 55 | Solution structure of the N-terminal domain of a replication restart primosome factor, PriC, in <i>Escherichia coli</i> . <i>Protein Science</i> , 2013, 22, 1279-1286. | 7.6 | 5 |
| 56 | Principal component analysis of data from NMR titration experiment of uniformly ¹⁵ N labeled amyloid beta (1-42) peptide with osmolytes and phenolic compounds. <i>Archives of Biochemistry and Biophysics</i> , 2020, 690, 108446. | 3.0 | 5 |
| 57 | Expression and Functional Evaluation of Recombinant Anti-receptor Activator of Nuclear Factor Kappa-B Ligand Monoclonal Antibody Produced in <i>Nicotiana benthamiana</i> . <i>Frontiers in Plant Science</i> , 2021, 12, 683417. | 3.6 | 5 |
| 58 | Reduction of Disulfide Bonds in Proteins by 2-Aminothiophenol under Weakly Acidic Conditions. <i>Journal of Biochemistry</i> , 1994, 115, 52-67. | 1.7 | 4 |
| 59 | Assignment of ¹ H, ¹³ C and ¹⁵ N resonances of N-terminal domain of DnaA protein. <i>Biomolecular NMR Assignments</i> , 2007, 1, 57-59. | 0.8 | 4 |
| 60 | X-ray crystal structure of <i>Escherichia coli</i> HspQ, a protein involved in the retardation of replication initiation. <i>FEBS Letters</i> , 2017, 591, 3805-3816. | 2.8 | 4 |
| 61 | Insight into the interaction between PriB and DnaT on bacterial DNA replication restart: Significance of the residues on PriB dimer interface and highly acidic region on DnaT. <i>Biochimica Et Biophysica Acta - Proteins and Proteomics</i> , 2019, 1867, 367-375. | 2.3 | 4 |
| 62 | A Simple Search of TM Segments in Polytopic Membrane Protein Using Matrix - Assisted Laser Desorption/Ionization Time - of - Flight Mass Spectrometry. <i>Protein and Peptide Letters</i> , 2006, 13, 761-767. | 0.9 | 3 |
| 63 | Crystal Structures of K33 Mutant Hen Lysozymes with Enhanced Activities. <i>Journal of Biochemistry</i> , 2008, 144, 619-623. | 1.7 | 3 |
| 64 | The structure of hyperthermophilic <i>N-acetylglucosaminidase</i> reveals a novel dimer architecture associated with the active site. <i>FEBS Journal</i> , 2014, 281, 5092-5103. | 4.7 | 3 |
| 65 | Effect of O-glycosylation on amyloid fibril formation of the variable domain in the β_6 light chain mutant Wil. <i>International Journal of Biological Macromolecules</i> , 2021, 166, 342-351. | 7.5 | 3 |
| 66 | Improvement of the affinity of an anti-rat P2X4 receptor antibody by introducing electrostatic interactions. <i>Scientific Reports</i> , 2022, 12, 131. | 3.3 | 3 |
| 67 | Detection of a Local Interaction of Hen Lysozyme under Highly Denaturing Conditions Using Chemically ¹³ C-Enriched Methionine Resonance. <i>Journal of Biochemistry</i> , 1998, 123, 313-317. | 1.7 | 2 |
| 68 | Effect of Protein Concentration and pH on the Chitinase Activity of <i>Tapes japonica</i> Lysozyme. <i>Protein and Peptide Letters</i> , 2010, 17, 172-175. | 0.9 | 2 |
| 69 | A structural model of the PriB-DnaT complex in <i>Escherichia coli</i> replication restart. <i>FEBS Letters</i> , 2021, 595, 341-350. | 2.8 | 2 |
| 70 | Detection of Subtle Differences in the Surface Structure of Lysozymes by Use of an Immobilized Fab Fragment. <i>Journal of Biochemistry</i> , 1993, 113, 174-179. | 1.7 | 1 |
| 71 | An Improved Method for Preparing Lysozyme with Chemically ¹³ C-Enriched Methionine Residues Using 2-Aminothiophenol as a Reagent of Thiolytic. <i>Journal of Biochemistry</i> , 1997, 122, 1153-1159. | 1.7 | 1 |
| 72 | Arg 901 in the AE1 C-terminal tail is involved in conformational change but not in substrate binding. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2012, 1818, 658-665. | 2.6 | 1 |

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|----|---|-----|-----------|
| 73 | Catalytic Mechanism of Lysozyme Based on the Structures of Invertebrate-type Lysozyme and Chicken-type Lysozyme. <i>Seibutsu Butsuri</i> , 2017, 57, 140-143. | 0.1 | 1 |
| 74 | Analysis of binding residues in monoclonal antibody with high affinity for the head domain of the rat P2X4 receptor. <i>Journal of Biochemistry</i> , 2021, 169, 491-496. | 1.7 | 1 |
| 75 | A metal binding in the polypeptide chain improves the folding efficiency of a denatured and reduced protein. <i>Biopolymers</i> , 2002, 64, 106-114. | 2.4 | 0 |
| 76 | Evidence for the Binding of Phosphate Ion to the C-Terminus Region in Aβ1-40 Using Heteronuclear NMR Analyses. <i>Protein and Peptide Letters</i> , 2010, 17, 176-180. | 0.9 | 0 |
| 77 | Helicase and Its Interacting Factors: Regulation Mechanism, Characterization, Structure, and Application for Drug Design. <i>BioMed Research International</i> , 2015, 2015, 1-1. | 1.9 | 0 |
| 78 | Biosynthetic Mechanism of Polytopic Membrane Protein as Deduced by Study of Band 3 Protein. <i>Seibutsu Butsuri</i> , 2006, 46, 4-9. | 0.1 | 0 |
| 79 | Structural Analysis of Hen Egg Lysozyme Refolded after Denaturation at Acidic pH. <i>Protein Journal</i> , 2022, 41, 71. | 1.6 | 0 |
| 80 | Compound screening identified gossypetin and isoquercitrin as novel inhibitors for amyloid fibril formations of V β 6 proteins associated with AL amyloidosis. <i>Biochemical and Biophysical Research Communications</i> , 2022, 596, 22-28. | 2.1 | 0 |