

# Masaki Okumura

## List of Publications by Year in descending order

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Version: 2024-02-01

47  
papers

1,221  
citations

394286

19  
h-index

377752

34  
g-index

52  
all docs

52  
docs citations

52  
times ranked

1604  
citing authors

#	ARTICLE	IF	CITATIONS
1	Visualization of structural dynamics of protein disulfide isomerase enzymes in catalysis of oxidative folding and reductive unfolding. <i>Current Opinion in Structural Biology</i> , 2021, 66, 49-57.	2.6	16
2	Conjugate of Thiol and Guanidyl Units with Oligoethylene Glycol Linkage for Manipulation of Oxidative Protein Folding. <i>Molecules</i> , 2021, 26, 879.	1.7	2
3	A unique leucine-valine adhesive motif supports structure and function of protein disulfide isomerase P5 via dimerization. <i>Structure</i> , 2021, 29, 1357-1370.e6.	1.6	8
4	Distinct roles and actions of protein disulfide isomerase family enzymes in catalysis of nascent-chain disulfide bond formation. <i>IScience</i> , 2021, 24, 102296.	1.9	5
5	Ca <sup>2+</sup> Regulates ERp57-Calnexin Complex Formation. <i>Molecules</i> , 2021, 26, 2853.	1.7	6
6	Functional Interplay between P5 and PDI/ERp72 to Drive Protein Folding. <i>Biology</i> , 2021, 10, 1112.	1.3	2
7	The Protein Disulfide Isomerase Family: from proteostasis to pathogenesis. <i>Biochimica Et Biophysica Acta - General Subjects</i> , 2020, 1864, 129338.	1.1	66
8	Characterization of the endoplasmic reticulum-resident peroxidases GPx7 and GPx8 shows the higher oxidative activity of GPx7 and its linkage to oxidative protein folding. <i>Journal of Biological Chemistry</i> , 2020, 295, 12772-12785.	1.6	23
9	PDI Family Members as Guides for Client Folding and Assembly. <i>International Journal of Molecular Sciences</i> , 2020, 21, 9351.	1.8	20
10	Antipsychotic olanzapine-induced misfolding of proinsulin in the endoplasmic reticulum accounts for atypical development of diabetes. <i>ELife</i> , 2020, 9, .	2.8	14
11	Diverse Structural Conversion and Aggregation Pathways of Alzheimer's Amyloid- $\beta$ (1-40). <i>ACS Nano</i> , 2019, 13, 8766-8783.	7.3	33
12	Coupling effects of thiol and urea-type groups for promotion of oxidative protein folding. <i>Chemical Communications</i> , 2019, 55, 759-762.	2.2	21
13	Dynamic assembly of protein disulfide isomerase in catalysis of oxidative folding. <i>Nature Chemical Biology</i> , 2019, 15, 499-509.	3.9	58
14	Impact of membrane curvature on amyloid aggregation. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2018, 1860, 1741-1764.	1.4	88
15	Structural Analyses of a Linker Region of the Amyloid Precursor Protein. <i>Biophysical Journal</i> , 2018, 114, 78a.	0.2	0
16	Ero1-Mediated Reoxidation of Protein Disulfide Isomerase Accelerates the Folding of Cone Snail Toxins. <i>International Journal of Molecular Sciences</i> , 2018, 19, 3418.	1.8	6
17	Energy landscape of polymorphic amyloid generation of $\beta$ 2-microglobulin revealed by calorimetry. <i>Chemical Communications</i> , 2018, 54, 7995-7998.	2.2	14
18	Characterization and optimization of two-chain folding pathways of insulin via native chain assembly. <i>Communications Chemistry</i> , 2018, 1, .	2.0	24

#	ARTICLE	IF	CITATIONS
19	Preparation of Selenoinsulin as a Long-Lasting Insulin Analogue. <i>Angewandte Chemie - International Edition</i> , 2017, 56, 5522-5526.	7.2	80
20	The Highly Dynamic Nature of ERdj5 Is Key to Efficient Elimination of Aberrant Protein Oligomers through ER-Associated Degradation. <i>Structure</i> , 2017, 25, 846-857.e4.	1.6	25
21	Preparation of Selenoinsulin as a Long-Lasting Insulin Analogue. <i>Angewandte Chemie</i> , 2017, 129, 5614-5618.	1.6	18
22	Folding Analyses of the Major Folding Intermediate of Prouroguanylin using Deletion Mutants. <i>Biophysical Journal</i> , 2016, 110, 389a.	0.2	0
23	Redox-assisted regulation of Ca <sup>2+</sup> homeostasis in the endoplasmic reticulum by disulfide reductase ERdj5. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2016, 113, E6055-E6063.	3.3	74
24	Human ER Oxidoreductin-1 $\pm$ (Ero1 $\pm$ ) Undergoes Dual Regulation through Complementary Redox Interactions with Protein-Disulfide Isomerase. <i>Journal of Biological Chemistry</i> , 2016, 291, 23952-23964.	1.6	15
25	Disulfide Selectivity under the Control of Secondary Structure in Protein Folding. <i>Biophysical Journal</i> , 2016, 110, 210a.	0.2	0
26	Cysteines 208 and 241 in Ero1 $\pm$ are required for maximal catalytic turnover. <i>Redox Biology</i> , 2016, 7, 14-20.	3.9	13
27	Structural stability of amyloid fibrils depends on the existence of the peripheral sequence near the core cross $\beta$ region. <i>FEBS Letters</i> , 2015, 589, 3541-3547.	1.3	9
28	A PDI-catalyzed thiol-disulfide switch regulates the production of hydrogen peroxide by human Ero1. <i>Free Radical Biology and Medicine</i> , 2015, 83, 361-372.	1.3	59
29	Structures and functions of protein disulfide isomerase family members involved in proteostasis in the endoplasmic reticulum. <i>Free Radical Biology and Medicine</i> , 2015, 83, 314-322.	1.3	94
30	One-Dimensional Sliding of p53 Along DNA Is Accelerated in the Presence of Ca <sup>2+</sup> or Mg <sup>2+</sup> at Millimolar Concentrations. <i>Journal of Molecular Biology</i> , 2015, 427, 2663-2678.	2.0	37
31	Inhibition of the Functional Interplay between Endoplasmic Reticulum (ER) Oxidoreductin-1 $\pm$ (Ero1 $\pm$ ) and Protein-disulfide Isomerase (PDI) by the Endocrine Disruptor Bisphenol A. <i>Journal of Biological Chemistry</i> , 2014, 289, 27004-27018.	1.6	38
32	Regulation of Disulfide Coupled Folding of De Novo Designed Precursor Protein. <i>Biophysical Journal</i> , 2014, 106, 472a.	0.2	0
33	Chemical Methods for Producing Disulfide Bonds in Peptides and Proteins to Study Folding Regulation. <i>Current Protocols in Protein Science</i> , 2014, 76, 28.7.1-28.7.13.	2.8	9
34	Chemical Methods and Approaches to the Regioselective Formation of Multiple Disulfide Bonds. <i>Current Protocols in Protein Science</i> , 2014, 76, 28.8.1-28.8.28.	2.8	3
35	Radically Different Thioredoxin Domain Arrangement of ERp46, an Efficient Disulfide Bond Introducer of the Mammalian PDI Family. <i>Structure</i> , 2014, 22, 431-443.	1.6	49
36	Positively Charged Redox Agents Accelerate Disulfide Coupled Protein Folding. <i>Biophysical Journal</i> , 2014, 106, 472a.	0.2	0

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37	Synergistic cooperation of PDI family members in peroxiredoxin 4-driven oxidative protein folding. <i>Scientific Reports</i> , 2013, 3, 2456.	1.6	118
38	Effects of positively charged redox molecules on disulfide-coupled protein folding. <i>FEBS Letters</i> , 2012, 586, 3926-3930.	1.3	11
39	Folding Mechanism of a Precursor Protein of a Peptide Hormone Mediated by an Intra-Molecular Chaperone. <i>Biophysical Journal</i> , 2012, 102, 56a.	0.2	0
40	Role of Leu66 in the Folding of Uroguanylin Assisted by Intra-Molecular Chaperone. <i>Biophysical Journal</i> , 2012, 102, 56a.	0.2	0
41	Acceleration of Disulfide-Coupled Protein Folding by Positively Charged Glutathione Derivatives. <i>Biophysical Journal</i> , 2012, 102, 57a.	0.2	0
42	Glutathione Ethylester, a Novel Protein Refolding Reagent, Enhances both the Efficiency of Refolding and Correct Disulfide Formation. <i>Protein Journal</i> , 2012, 31, 499-503.	0.7	4
43	A chemical method for investigating disulfide-coupled peptide and protein folding. <i>FEBS Journal</i> , 2012, 279, 2283-2295.	2.2	34
44	Crystallization and preliminary crystallographic analysis of the complex between triiodothyronine and thebb <sup>2</sup> fragment of rat protein disulfide isomerase. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2012, 68, 476-478.	0.7	2
45	Acceleration of disulfide-coupled protein folding using glutathione derivatives. <i>FEBS Journal</i> , 2011, 278, 1137-1144.	2.2	44
46	High-resolution X-ray analysis reveals binding of arginine to aromatic residues of lysozyme surface: implication of suppression of protein aggregation by arginine. <i>Protein Engineering, Design and Selection</i> , 2011, 24, 269-274.	1.0	75
47	Crystallization and preliminary X-ray structural studies of human prouroguanylin. <i>Acta Crystallographica Section F: Structural Biology Communications</i> , 2008, 64, 531-532.	0.7	3