Masaki Okumura

List of Publications by Year
in descending order

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Version: 2024-02-01

47 papers	1,221 citations	394390 19 h-index	377849 34 g-index
52 all docs	52 docs citations	52 times ranked	1604 citing authors

#	Article	IF	Citations
1	Synergistic cooperation of PDI family members in peroxiredoxin 4-driven oxidative protein folding. Scientific Reports, 2013, 3, 2456.	3.3	118
2	Structures and functions of protein disulfide isomerase family members involved in proteostasis in the endoplasmic reticulum. Free Radical Biology and Medicine, 2015, 83, 314-322.	2.9	94
3	Impact of membrane curvature on amyloid aggregation. Biochimica Et Biophysica Acta - Biomembranes, 2018, 1860, 1741-1764.	2.6	88
4	Preparation of Selenoinsulin as a Longâ€Lasting Insulin Analogue. Angewandte Chemie - International Edition, 2017, 56, 5522-5526.	13.8	80
5	High-resolution X-ray analysis reveals binding of arginine to aromatic residues of lysozyme surface: implication of suppression of protein aggregation by arginine. Protein Engineering, Design and Selection, 2011, 24, 269-274.	2.1	75
6	Redox-assisted regulation of Ca ²⁺ homeostasis in the endoplasmic reticulum by disulfide reductase ERdj5. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E6055-E6063.	7.1	74
7	The Protein Disulfide Isomerase Family: from proteostasis to pathogenesis. Biochimica Et Biophysica Acta - General Subjects, 2020, 1864, 129338.	2.4	66
8	A PDI-catalyzed thiolâ€“disulfide switch regulates the production of hydrogen peroxide by human Ero1. Free Radical Biology and Medicine, 2015, 83, 361-372.	2.9	59
9	Dynamic assembly of protein disulfide isomerase in catalysis of oxidative folding. Nature Chemical Biology, 2019, 15, 499-509.	8.0	58
10	Radically Different Thioredoxin Domain Arrangement of ERp46, an Efficient Disulfide Bond Introducer of the Mammalian PDI Family. Structure, 2014, 22, 431-443.	3.3	49
11	Acceleration of disulfideâ€coupled protein folding using glutathione derivatives. FEBS Journal, 2011, 278, 1137-1144.	4.7	44
12	Inhibition of the Functional Interplay between Endoplasmic Reticulum (ER) Oxidoreductin-1Î± (Ero1Î±) and Protein-disulfide Isomerase (PDI) by the Endocrine Disruptor Bisphenol A. Journal of Biological Chemistry, 2014, 289, 27004-27018.	3.4	38
13	One-Dimensional Sliding of p53 Along DNA Is Accelerated in the Presence of Ca2+ or Mg2+ at Millimolar Concentrations. Journal of Molecular Biology, 2015, 427, 2663-2678.	4.2	37
14	A chemical method for investigating disulfideâ€coupled peptide and protein folding. FEBS Journal, 2012, 279, 2283-2295.	4.7	34
15	Diverse Structural Conversion and Aggregation Pathways of AlzheimerÊ¼s Amyloid-Î² (1â€“40). ACS Nano, 2019, 13, 8766-8783.	14.6	33
16	The Highly Dynamic Nature of ERdj5 Is Key to Efficient Elimination of Aberrant Protein Oligomers through ER-Associated Degradation. Structure, 2017, 25, 846-857.e4.	3.3	25
17	Characterization and optimization of two-chain folding pathways of insulin via native chain assembly. Communications Chemistry, 2018, 1, .	4.5	24
18	Characterization of the endoplasmic reticulumâ€“resident peroxidases GPx7 and GPx8 shows the higher oxidative activity of GPx7 and its linkage to oxidative protein folding. Journal of Biological Chemistry, 2020, 295, 12772-12785.	3.4	23

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19	Coupling effects of thiol and urea-type groups for promotion of oxidative protein folding. Chemical Communications, 2019, 55, 759-762.	4.1	21
20	PDI Family Members as Guides for Client Folding and Assembly. International Journal of Molecular Sciences, 2020, 21, 9351.	4.1	20
21	Preparation of Selenoinsulin as a Longâ€Lasting Insulin Analogue. Angewandte Chemie, 2017, 129, 5614-5618.	2.0	18
22	Visualization of structural dynamics of protein disulfide isomerase enzymes in catalysis of oxidative folding and reductive unfolding. Current Opinion in Structural Biology, 2021, 66, 49-57.	5.7	16
23	Human ER Oxidoreductin-1Î± (Ero1Î±) Undergoes Dual Regulation through Complementary Redox Interactions with Protein-Disulfide Isomerase. Journal of Biological Chemistry, 2016, 291, 23952-23964.	3.4	15
24	Energy landscape of polymorphic amyloid generation of Î²2-microglobulin revealed by calorimetry. Chemical Communications, 2018, 54, 7995-7998.	4.1	14
25	Antipsychotic olanzapine-induced misfolding of proinsulin in the endoplasmic reticulum accounts for atypical development of diabetes. ELife, 2020, 9, .	6.0	14
26	Cysteines 208 and 241 in Ero1Î± are required for maximal catalytic turnover. Redox Biology, 2016, 7, 14-20.	9.0	13
27	Effects of positively charged redox molecules on disulfideâ€coupled protein folding. FEBS Letters, 2012, 586, 3926-3930.	2.8	11
28	Chemical Methods for Producing Disulfide Bonds in Peptides and Proteins to Study Folding Regulation. Current Protocols in Protein Science, 2014, 76, 28.7.1-28.7.13.	2.8	9
29	Structural stability of amyloid fibrils depends on the existence of the peripheral sequence near the core crossâ€Î² region. FEBS Letters, 2015, 589, 3541-3547.	2.8	9
30	A unique leucine-valine adhesive motif supports structure and function of protein disulfide isomerase P5 via dimerization. Structure, 2021, 29, 1357-1370.e6.	3.3	8
31	Ero1-Mediated Reoxidation of Protein Disulfide Isomerase Accelerates the Folding of Cone Snail Toxins. International Journal of Molecular Sciences, 2018, 19, 3418.	4.1	6
32	Ca2+ Regulates ERp57-Calnexin Complex Formation. Molecules, 2021, 26, 2853.	3.8	6
33	Distinct roles and actions of protein disulfide isomerase family enzymes in catalysis of nascent-chain disulfide bond formation. IScience, 2021, 24, 102296.	4.1	5
34	Glutathione Ethylester, a Novel Protein Refolding Reagent, Enhances both the Efficiency of Refolding and Correct Disulfide Formation. Protein Journal, 2012, 31, 499-503.	1.6	4
35	Crystallization and preliminary X-ray structural studies of human prouroguanylin. Acta Crystallographica Section F: Structural Biology Communications, 2008, 64, 531-532.	0.7	3
36	Chemical Methods and Approaches to the Regioselective Formation of Multiple Disulfide Bonds. Current Protocols in Protein Science, 2014, 76, 28.8.1-28.8.28.	2.8	3

#	Article	IF	Citations
37	Crystallization and preliminary crystallographic analysis of the complex between triiodothyronine and thebbâ€² fragment of rat protein disulfide isomerase. Acta Crystallographica Section F: Structural Biology Communications, 2012, 68, 476-478.	0.7	2
38	Conjugate of Thiol and Guanidyl Units with Oligoethylene Glycol Linkage for Manipulation of Oxidative Protein Folding. Molecules, 2021, 26, 879.	3.8	2
39	Functional Interplay between P5 and PDI/ERp72 to Drive Protein Folding. Biology, 2021, 10, 1112.	2.8	2
40	Folding Mechanism of a Precursor Protein of a Peptide Hormone Mediated by an Intra-Molecular Chaperone. Biophysical Journal, 2012, 102, 56a.	0.5	0
41	Role of Leu66 in the Folding of Uroguanylin Assisted by Intra-Molecular Chaperone. Biophysical Journal, 2012, 102, 56a.	0.5	0
42	Acceleration of Disulfide-Coupled Protein Folding by Positively Charged Glutathione Derivatives. Biophysical Journal, 2012, 102, 57a.	0.5	0
43	Regulation of Disulfide Coupled Folding of De Novo Designed Precursor Protein. Biophysical Journal, 2014, 106, 472a.	0.5	0
44	Positively Charged Redox Agents Accelerate Disulfide Coupled Protein Folding. Biophysical Journal, 2014, 106, 472a.	0.5	0
45	Folding Analyses of the Major Folding Intermediate of Prouroguanylin using Deletion Mutants. Biophysical Journal, 2016, 110, 389a.	0.5	0
46	Disulfide Selectivity under the Control of Secondary Structure in Protein Folding. Biophysical Journal, 2016, 110, 210a.	0.5	0
47	Structural Analyses of a Linker Region of the Amyloid Precursor Protein. Biophysical Journal, 2018, 114, 78a.	0.5	0