Neil J Bulleid

List of Publications by Year
in descending order

89 papers	7,301 citations	53660 45 h-index	54797 84 g-index
96 all docs	96 docs citations	96 times ranked	6719 citing authors

#	Article	IF	Citations
1	Protein Folding and Modification in the Mammalian Endoplasmic Reticulum. Annual Review of Biochemistry, 2011, 80, 71-99.	5.0	563
2	Interaction of the Thiol-Dependent Reductase ERp57 with Nascent Glycoproteins. Science, 1997, 275, 86-88.	6.0	376
3	The role of glutathione in disulphide bond formation and endoplasmicâ€reticulumâ€generated oxidative stress. EMBO Reports, 2006, 7, 271-275.	2.0	376
4	Defective co-translational formation of disulphide bonds in protein disulphide-isomerase-deficient microsomes. Nature, 1988, 335, 649-651.	13.7	354
5	ERO1-L, a Human Protein That Favors Disulfide Bond Formation in the Endoplasmic Reticulum. Journal of Biological Chemistry, 2000, 275, 4827-4833.	1.6	264
6	Endoplasmic Reticulum Oxidoreductin 1-LÎ² (ERO1-LÎ²), a Human Gene Induced in the Course of the Unfolded Protein Response. Journal of Biological Chemistry, 2000, 275, 23685-23692.	1.6	239
7	Disulfide Formation in the ER and Mitochondria: Two Solutions to a Common Process. Science, 2009, 324, 1284-1287.	6.0	227
8	Recycling of peroxiredoxin IV provides a novel pathway for disulphide formation in the endoplasmic reticulum. EMBO Journal, 2010, 29, 4185-4197.	3.5	213
9	Multiple ways to make disulfides. Trends in Biochemical Sciences, 2011, 36, 485-492.	3.7	199
10	Hsp47: a molecular chaperone that interacts with and stabilizes correctly-folded procollagen. EMBO Journal, 2000, 19, 2204-2211.	3.5	198
11	ERp57 is essential for efficient folding of glycoproteins sharing common structural domains. EMBO Journal, 2007, 26, 28-40.	3.5	177
12	Protein disulphide isomerase family members show distinct substrate specificity: P5 is targeted to BiP client proteins. Journal of Cell Science, 2009, 122, 4287-4295.	1.2	168
13	Glutathione Is Required to Regulate the Formation of Native Disulfide Bonds within Proteins Entering the Secretory Pathway. Journal of Biological Chemistry, 2004, 279, 39872-39879.	1.6	159
14	Peroxiredoxin IV protects cells from oxidative stress by removing H2O2 produced during disulphide formation. Journal of Cell Science, 2010, 123, 2672-2679.	1.2	148
15	Glutathione Directly Reduces an Oxidoreductase in the Endoplasmic Reticulum of Mammalian Cells. Journal of Biological Chemistry, 2004, 279, 55341-55347.	1.6	144
16	Identification of the molecular recognition sequence which determines the type-specific assembly of procollagen. EMBO Journal, 1997, 16, 908-916.	3.5	135
17	Peroxiredoxin IV is an endoplasmic reticulum-localized enzyme forming oligomeric complexes in human cells. Biochemical Journal, 2008, 411, 191-199.	1.7	134
18	Low reduction potential of Ero1Î± regulatory disulphides ensures tight control of substrate oxidation. EMBO Journal, 2008, 27, 2988-2997.	3.5	130

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19	Protein disulfide Isomerase Acts as a Molecular Chaperone during the Assembly of Procollagen. Journal of Biological Chemistry, 1998, 273, 9637-9643.	1.6	129
20	Real-Time Fluorescence Detection of ERAD Substrate Retrotranslocation inÂaÂMammalian In Vitro System. Cell, 2007, 129, 943-955.	13.5	122
21	Intracellular Folding of Tissue-type Plasminogen Activator. Journal of Biological Chemistry, 1995, 270, 4797-4804.	1.6	118
22	ERdj5 Is the ER Reductase that Catalyzes the Removal of Non-Native Disulfides and Correct Folding of the LDL Receptor. Molecular Cell, 2013, 50, 793-804.	4.5	116
23	Molecular recognition in procollagen chain assembly. Matrix Biology, 1998, 16, 369-377.	1.5	106
24	Disulfide Bond Formation in the Mammalian Endoplasmic Reticulum. Cold Spring Harbor Perspectives in Biology, 2012, 4, a013219-a013219.	2.3	99
25	Forming disulfides in the endoplasmic reticulum. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 2425-2429.	1.9	93
26	Real-time monitoring of redox changes in the mammalian endoplasmic reticulum. Journal of Cell Science, 2011, 124, 2349-2356.	1.2	91
27	Molecular Mechanisms Regulating Oxidative Activity of the Ero1 Family in the Endoplasmic Reticulum. Antioxidants and Redox Signaling, 2010, 13, 1177-1187.	2.5	90
28	Intracellular Retention of Procollagen within the Endoplasmic Reticulum Is Mediated by Prolyl 4-Hydroxylase. Journal of Biological Chemistry, 1999, 274, 14884-14892.	1.6	89
29	Expression of an engineered form of recombinant procollagen in mouse milk. Nature Biotechnology, 1999, 17, 385-389.	9.4	84
30	Intracellular catalysis of disulfide bond formation by the human sulfhydryl oxidase, QSOX1. Biochemical Journal, 2007, 404, 403-411.	1.7	83
31	How Are Proteins Reduced in the Endoplasmic Reticulum?. Trends in Biochemical Sciences, 2018, 43, 32-43.	3.7	82
32	Is protein disulfide isomerase a redox-dependent molecular chaperone?. EMBO Journal, 2002, 21, 6763-6770.	3.5	80
33	Tissue-specific Expression and Dimerization of the Endoplasmic Reticulum Oxidoreductase Ero1Î². Journal of Biological Chemistry, 2005, 280, 33066-33075.	1.6	78
34	Divalent cations regulate the folding and activation status of integrins during their intracellular trafficking. Journal of Cell Science, 2011, 124, 1672-1680.	1.2	78
35	The Role of ERp57 in Disulfide Bond Formation during the Assembly of Major Histocompatibility Complex Class I in a Synchronized Semipermeabilized Cell Translation System. Journal of Biological Chemistry, 2000, 275, 14933-14938.	1.6	76
36	Substrate Specificity of the Oxidoreductase ERp57 Is Determined Primarily by Its Interaction with Calnexin and Calreticulin. Journal of Biological Chemistry, 2009, 284, 2194-2202.	1.6	74

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37	The Reduction Potential of the Active Site Disulfides of Human Protein Disulfide Isomerase Limits Oxidation of the Enzyme by Ero1Î±. Journal of Biological Chemistry, 2010, 285, 29200-29207.	1.6	71
38	Type-III procollagen assembly in semi-intact cells: chain association, nucleation and triple-helix folding do not require formation of inter-chain disulphide bonds but triple-helix nucleation does require hydroxylation. Biochemical Journal, 1996, 317, 195-202.	1.7	70
39	Oxidative protein folding in the mammalian endoplasmic reticulum. Biochemical Society Transactions, 2004, 32, 655-658.	1.6	68
40	Crystal Structure of Reduced and of Oxidized Peroxiredoxin IV Enzyme Reveals a Stable Oxidized Decamer and a Non-disulfide-bonded Intermediate in the Catalytic Cycle. Journal of Biological Chemistry, 2011, 286, 42257-42266.	1.6	67
41	Cytosolic thioredoxin reductase 1 is required for correct disulfide formation in the <scp>ER</scp>. EMBO Journal, 2017, 36, 693-702.	3.5	65
42	Quality control in the endoplasmic reticulum. Current Biology, 2001, 11, 1114-1118.	1.8	64
43	Sequence-specific Recognition of Collagen Triple Helices by the Collagen-specific Molecular Chaperone HSP47. Journal of Biological Chemistry, 2002, 277, 35007-35012.	1.6	56
44	Pivotal Role of Calnexin and Mannose Trimming in Regulating the Endoplasmic Reticulum-associated Degradation of Major Histocompatibility Complex Class I Heavy Chain. Journal of Biological Chemistry, 2000, 275, 21224-21232.	1.6	54
45	Thiol-independent interaction of protein disulphide isomerase with type X collagen during intra-cellular folding and assembly. Biochemical Journal, 1998, 331, 793-800.	1.7	49
46	Protein-specific chaperones: The role of hsp47 begins to gel. Current Biology, 2000, 10, R912-R915.	1.8	47
47	Thiol-disulfide exchange between the PDI family of oxidoreductases negates the requirement for an oxidase or reductase for each enzyme. Biochemical Journal, 2015, 469, 279-288.	1.7	47
48	<scp>ER</scp> p18 regulates activation of <scp>ATF</scp> 6Î± during unfolded protein response. EMBO Journal, 2019, 38, e100990.	3.5	44
49	Protein folding and translocation across the endoplasmic reticulum membrane (Review). Molecular Membrane Biology, 2003, 20, 99-104.	2.0	41
50	Prolyl 4-Hydroxylase: Defective Assembly of .alpha.-Subunit Mutants Indicates That Assembled .alpha.-Subunits Are Intramolecularly Disulfide Bonded. Biochemistry, 1994, 33, 14018-14025.	1.2	40
51	Mechanisms of Disulfide Bond Formation in Nascent Polypeptides Entering the Secretory Pathway. Cells, 2020, 9, 1994.	1.8	36
52	Efficient Glycosylphosphatidylinositol (GPI) Modification of Membrane Proteins Requires a C-terminal Anchoring Signal of Marginal Hydrophobicity. Journal of Biological Chemistry, 2012, 287, 16399-16409.	1.6	35
53	Folding of a single domain protein entering the endoplasmic reticulum precedes disulfide formation. Journal of Biological Chemistry, 2017, 292, 6978-6986.	1.6	34
54	Early Events in Glycosylphosphatidylinositol Anchor Addition. Journal of Biological Chemistry, 2001, 276, 15975-15982.	1.6	33

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55	Species specific membrane anchoring of nyctalopin, a small leucine-rich repeat protein. Human Molecular Genetics, 2005, 14, 1877-1887.	1.4	32
56	Proteolytic processing of QSOX1A ensures efficient secretion of a potent disulfide catalyst. Biochemical Journal, 2013, 454, 181-190.	1.7	27
57	The Endoplasmic Reticulum (ER) Translocon Can Differentiate between Hydrophobic Sequences Allowing Signals for Glycosylphosphatidylinositol Anchor Addition to Be Fully Translocated into the ER Lumen. Journal of Biological Chemistry, 2003, 278, 51749-51757.	1.6	25
58	Division of labor among oxidoreductases: TMX1 preferentially acts on transmembrane polypeptides. Molecular Biology of the Cell, 2015, 26, 3390-3400.	0.9	24
59	Effects of metyrapone and norharmane on microsomal mono-oxygenase and epoxide hydrolase activities. Biochemical Pharmacology, 1984, 33, 1451-1457.	2.0	23
60	Formation of a Major Histocompatibility Complex Class I Tapasin Disulfide Indicates a Change in Spatial Organization of the Peptide-loading Complex during Assembly. Journal of Biological Chemistry, 2008, 283, 1862-1869.	1.6	22
61	Lack of an Efficient Endoplasmic Reticulum-localized Recycling System Protects Peroxiredoxin IV from Hyperoxidation. Journal of Biological Chemistry, 2014, 289, 5490-5498.	1.6	22
62	Intracellular dissociation and reassembly of prolyl 4-hydroxylase:the Î±-subunits associated with the immunoglobulin-heavy-chain binding protein (BiP) allowing reassembly with the Î²-subunit. Biochemical Journal, 1996, 317, 659-665.	1.7	21
63	Folding and Assembly of Type X Collagen Mutants That Cause Metaphyseal Chondrodysplasia-type Schmid. Journal of Biological Chemistry, 1999, 274, 7570-7575.	1.6	21
64	Inactivation of mammalian Ero1Î± is catalysed by specific protein disulfide-isomerases. Biochemical Journal, 2014, 461, 107-113.	1.7	20
65	Inhibition of IRE1Î±-mediated XBP1 mRNA cleavage by XBP1 reveals a novel regulatory process during the unfolded protein response. Wellcome Open Research, 2017, 2, 36.	0.9	19
66	Novel approach to study the initial events in the folding and assembly of procollagen. Seminars in Cell and Developmental Biology, 1996, 7, 667-672.	2.3	17
67	Wild-type and missense mutants of retinoschisin co-assemble resulting in either intracellular retention or incorrect assembly of the functionally active octamer. Biochemical Journal, 2010, 425, 275-284.	1.7	16
68	Protein secondary structure determines the temporal relationship between folding and disulfide formation. Journal of Biological Chemistry, 2020, 295, 2438-2448.	1.6	16
69	Redox regulation in the endoplasmic reticulum. Biochemical Society Transactions, 2014, 42, 905-908.	1.6	15
70	The membrane topology of vitamin K epoxide reductase is conserved between human isoforms and the bacterial enzyme. Biochemical Journal, 2016, 473, 851-858.	1.7	15
71	The mammalian cytosolic thioredoxin reductase pathway acts via a membrane protein to reduce ER-localised proteins. Journal of Cell Science, 2020, 133, .	1.2	15
72	Activation of the UPR sensor ATF6Î± is regulated by its redox-dependent dimerization and ER retention by ERp18. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2122657119.	3.3	15

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73	IgG light chain-independent secretion of heavy chain dimers: consequence for therapeutic antibody production and design. Biochemical Journal, 2017, 474, 3179-3188.	1.7	14
74	Folding of Human Intestinal Lactase-phlorizin Hydrolase. Journal of Biological Chemistry, 1995, 270, 18678-18684.	1.6	13
75	Methionine sulfoxide reductase B3 requires resolving cysteine residues for full activity and can act as a stereospecific methionine oxidase. Biochemical Journal, 2018, 475, 827-838.	1.7	13
76	Alterations in the metabolism of 7,12-dimethylbenz[a]anthracene and various xenobiotics by rat hepatic microsomes following Sudan III treatment in vivo. Carcinogenesis, 1985, 6, 469-472.	1.3	12
77	Induction of microsomal epoxide hydrolase by nitrosamines in rat liver. Biochemical Pharmacology, 1988, 37, 297-302.	2.0	12
78	Differential Oxidation of HLA-B2704 and HLA-B2705 in Lymphoblastoid and Transfected Adherent Cells. Antioxidants and Redox Signaling, 2006, 8, 292-299.	2.5	12
79	Regulating the level of intracellular hydrogen peroxide: the role of peroxiredoxin IV. Biochemical Society Transactions, 2014, 42, 42-46.	1.6	12
80	Inhibition of IRE1Î±-mediated XBP1 mRNA cleavage by XBP1 reveals a novel regulatory process during the unfolded protein response. Wellcome Open Research, 0, 2, 36.	0.9	9
81	Major histocompatibility class I folding, assembly, and degradation: A paradigm for two-stage quality control in the endoplasmic reticulum. Progress in Molecular Biology and Translational Science, 2001, 67, 235-268.	1.9	5
82	Mix-and-Match Proteomics: Using Advanced Iodoacetyl Tandem Mass Tag Multiplexing To Investigate Cysteine Oxidation Changes with Respect to Protein Expression. Analytical Chemistry, 2018, 90, 14173-14180.	3.2	4
83	Structure and Electron-Transfer Pathway of the Human Methionine Sulfoxide Reductase MsrB3. Antioxidants and Redox Signaling, 2020, 33, 665-678.	2.5	4
84	Solving the mystery of procollagen chain selectivity. Nature Structural and Molecular Biology, 2012, 19, 977-978.	3.6	3
85	A cytosolic reductase pathway is required for efficient N-glycosylation of an STT3B-dependent acceptor site. Journal of Cell Science, 2021, 134, .	1.2	3
86	A cautionary note when using pepsin as a probe for the formation of a collagen triple helix. Matrix Biology, 1998, 17, 233-236.	1.5	2
87	Detecting peroxiredoxin hyperoxidation by one-dimensional isoelectric focusing. Biophysics Reports, 2015, 1, 14-17.	0.2	2
88	ERp57 is involved in the oxidative folding of the low-density lipoprotein receptor in the endoplasmic reticulum. Bioscience Horizons, 2009, 2, 13-21.	0.6	0
89	Measuring the Folding Dynamics of Recombinant Proteins Secreted from Mammalian Cells. Methods in Biotechnology, 1999, , 255-261.	0.2	0