Isabella Dalle-Donne

List of Publications by Year
in descending order

142 papers	13,466 citations	29994 54 h-index	21474 114 g-index

151 all docs	151 docs citations	151 times ranked	17086 citing authors

#	Article	IF	Citations
1	Protein carbonyl groups as biomarkers of oxidative stress. Clinica Chimica Acta, 2003, 329, 23-38.	0.5	1,888
2	Biomarkers of Oxidative Damage in Human Disease. Clinical Chemistry, 2006, 52, 601-623.	1.5	1,395
3	Protein carbonylation in human diseases. Trends in Molecular Medicine, 2003, 9, 169-176.	3.5	813
4	Protein carbonylation, cellular dysfunction, and disease progression. Journal of Cellular and Molecular Medicine, 2006, 10, 389-406.	1.6	691
5	Protein S-glutathionylation: a regulatory device from bacteria to humans. Trends in Biochemical Sciences, 2009, 34, 85-96.	3.7	557
6	S-glutathionylation in protein redox regulation. Free Radical Biology and Medicine, 2007, 43, 883-898.	1.3	422
7	Proteins as biomarkers of oxidative/nitrosative stress in diseases: The contribution of redox proteomics. Mass Spectrometry Reviews, 2005, 24, 55-99.	2.8	392
8	The actin cytoskeleton response to oxidants: from small heat shock protein phosphorylation to changes in the redox state of actin itself. Free Radical Biology and Medicine, 2001, 31, 1624-1632.	1.3	353
9	Oxidative stress and human diseases: Origin, link, measurement, mechanisms, and biomarkers. Critical Reviews in Clinical Laboratory Sciences, 2009, 46, 241-281.	2.7	348
10	Molecular Mechanisms and Potential Clinical Significance ofS-Glutathionylation. Antioxidants and Redox Signaling, 2008, 10, 445-474.	2.5	275
11	Nitrite and Nitrate Measurement by Griess Reagent in Human Plasma: Evaluation of Interferences and Standardization. Methods in Enzymology, 2008, 440, 361-380.	0.4	272
12	S-Glutathionylation: from redox regulation of protein functions to human diseases. Journal of Cellular and Molecular Medicine, 2004, 8, 201-212.	1.6	265
13	Analysis of GSH and GSSG after derivatization with N-ethylmaleimide. Nature Protocols, 2013, 8, 1660-1669.	5.5	257
14	Intervention strategies to inhibit protein carbonylation by lipoxidation-derived reactive carbonyls. Medicinal Research Reviews, 2007, 27, 817-868.	5.0	256
15	Blood Glutathione Disulfide: In Vivo Factor or in Vitro Artifact?. Clinical Chemistry, 2002, 48, 742-753.	1.5	227
16	Redox Proteomics: Chemical Principles, Methodological Approaches and Biological/Biomedical Promises. Chemical Reviews, 2013, 113, 596-698.	23.0	222
17	Reversible S-glutathionylation of Cys374 regulates actin filament formation by inducing structural changes in the actin molecule. Free Radical Biology and Medicine, 2003, 34, 23-32.	1.3	178
18	Engineered cobalt oxide nanoparticles readily enter cells. Toxicology Letters, 2009, 189, 253-259.	0.4	149

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19	Actin carbonylation: from a simple marker of protein oxidation to relevant signs of severe functional impairment. Free Radical Biology and Medicine, 2001, 31, 1075-1083.	1.3	148
20	An improved HPLC measurement for GSH and GSSG in human blood. Free Radical Biology and Medicine, 2003, 35, 1365-1372.	1.3	140
21	S-Nitrosation versus S-Glutathionylation of Protein Sulfhydryl Groups by S-Nitrosoglutathione. Antioxidants and Redox Signaling, 2005, 7, 930-939.	2.5	127
22	Methionine oxidation as a major cause of the functional impairment of oxidized actin. Free Radical Biology and Medicine, 2002, 32, 927-937.	1.3	126
23	Oxidized Forms of Glutathione in Peripheral Blood as Biomarkers of Oxidative Stress. Clinical Chemistry, 2006, 52, 1406-1414.	1.5	125
24	Age-Related Influence on Thiol, Disulfide, and Protein-Mixed Disulfide Levels in Human Plasma. Journals of Gerontology - Series A Biological Sciences and Medical Sciences, 2006, 61, 1030-1038.	1.7	122
25	Redox Albuminomics: Oxidized Albumin in Human Diseases. Antioxidants and Redox Signaling, 2012, 17, 1515-1527.	2.5	121
26	Detection of S-nitrosothiols in biological fluids: A comparison among the most widely applied methodologies. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 851, 124-139.	1.2	120
27	A step-by-step protocol for assaying protein carbonylation in biological samples. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 178-190.	1.2	119
28	Nitric oxide and S-nitrosothiols in human blood. Clinica Chimica Acta, 2003, 330, 85-98.	0.5	117
29	Is ascorbate able to reduce disulfide bridges? A cautionary note. Nitric Oxide - Biology and Chemistry, 2008, 19, 252-258.	1.2	112
30	Assessment of glutathione/glutathione disulphide ratio and S-glutathionylated proteins in human blood, solid tissues, and cultured cells. Free Radical Biology and Medicine, 2017, 112, 360-375.	1.3	111
31	Pitfalls in the analysis of the physiological antioxidant glutathione (GSH) and its disulfide (GSSG) in biological samples: An elephant in the room. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 21-28.	1.2	107
32	Actin S-glutathionylation: evidence against a thiol-disulphide exchange mechanism. Free Radical Biology and Medicine, 2003, 35, 1185-1193.	1.3	104
33	Cysteinylation and homocysteinylation of plasma protein thiols during ageing of healthy human beings. Journal of Cellular and Molecular Medicine, 2009, 13, 3131-3140.	1.6	89
34	Early cytotoxic effects of ochratoxin A in rat liver: A morphological, biochemical and molecular study. Toxicology, 2006, 225, 214-224.	2.0	85
35	Actin Cys374 as a nucleophilic target of Î±,Î²-unsaturated aldehydes. Free Radical Biology and Medicine, 2007, 42, 583-598.	1.3	82
36	S-NO-actin: S-nitrosylation kinetics and the effect on isolated vascular smooth muscle. Journal of Muscle Research and Cell Motility, 2000, 21, 171-181.	0.9	81

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37	Lipoxidation-Derived Reactive Carbonyl Species as Potential Drug Targets in Preventing Protein Carbonylation and Related Cellular Dysfunction. ChemMedChem, 2006, 1, 1045-1058.	1.6	78
38	Different Metabolizing Ability of Thiol Reactants in Human and Rat Blood. Journal of Biological Chemistry, 2001, 276, 7004-7010.	1.6	76
39	Protein carbonylation: 2,4-dinitrophenylhydrazine reacts with both aldehydes/ketones and sulfenic acids. Free Radical Biology and Medicine, 2009, 46, 1411-1419.	1.3	76
40	S-glutathionylation in human platelets by a thiolâ€“disulfide exchange-independent mechanism. Free Radical Biology and Medicine, 2005, 38, 1501-1510.	1.3	74
41	Covalent modification of actin by 4-hydroxy-trans-2-nonenal (HNE): LC-ESI-MS/MS evidence for Cys374 Michael adduction. Journal of Mass Spectrometry, 2005, 40, 946-954.	0.7	74
42	Identification of Actin as a 15-Deoxy-Î”12,14-prostaglandin J2Target in Neuroblastoma Cells:Â Mass Spectrometric, Computational, and Functional Approaches To Investigate the Effect on Cytoskeletal Derangementâ€. Biochemistry, 2007, 46, 2707-2718.	1.2	73
43	Oxidative damage in human gingival fibroblasts exposed to cigarette smoke. Free Radical Biology and Medicine, 2012, 52, 1584-1596.	1.3	73
44	Prolonged Oxidative Stress on Actin. Archives of Biochemistry and Biophysics, 1997, 339, 267-274.	1.4	71
45	Red blood cells as a physiological source of glutathione for extracellular fluids. Blood Cells, Molecules, and Diseases, 2008, 40, 174-179.	0.6	70
46	Water-Soluble Î±,Î²-Unsaturated Aldehydes of Cigarette Smoke Induce Carbonylation of Human Serum Albumin. Antioxidants and Redox Signaling, 2010, 12, 349-364.	2.5	68
47	N-Acetylcysteine ethyl ester (NACET): A novel lipophilic cell-permeable cysteine derivative with an unusual pharmacokinetic feature and remarkable antioxidant potential. Biochemical Pharmacology, 2012, 84, 1522-1533.	2.0	68
48	Redox Proteomics. Antioxidants and Redox Signaling, 2012, 17, 1487-1489.	2.5	62
49	Adaptation of the Griess Reaction for Detection of Nitrite in Human Plasma. Free Radical Research, 2004, 38, 1235-1240.	1.5	60
50	Protein Glutathionylation in Erythrocytes. Clinical Chemistry, 2003, 49, 327-330.	1.5	59
51	Detection of glutathione in whole blood after stabilization with N-ethylmaleimide. Analytical Biochemistry, 2011, 415, 81-83.	1.1	59
52	Glutathione, glutathione disulfide, and S-glutathionylated proteins in cell cultures. Free Radical Biology and Medicine, 2015, 89, 972-981.	1.3	59
53	S-Glutathiolation in life and death decisions of the cell. Free Radical Research, 2011, 45, 3-15.	1.5	58
54	Low molecular mass thiols, disulfides and protein mixed disulfides in rat tissues: Influence of sample manipulation, oxidative stress and ageing. Mechanisms of Ageing and Development, 2011, 132, 141-148.	2.2	58

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55	Redox proteomics: from protein modifications to cellular dysfunction and disease. Mass Spectrometry Reviews, 2014, 33, 1-6.	2.8	57
56	Blood glutathione disulfide: in vivo factor or in vitro artifact?. Clinical Chemistry, 2002, 48, 742-53.	1.5	53
57	Nitric oxide, S-nitrosothiols and hemoglobin: is methodology the key?. Trends in Pharmacological Sciences, 2004, 25, 311-316.	4.0	49
58	The potential of resveratrol against human gliomas. Anti-Cancer Drugs, 2010, 21, 140-150.	0.7	49
59	A central role for intermolecular dityrosine cross-linking of fibrinogen in high molecular weight advanced oxidation protein product (AOPP) formation. Biochimica Et Biophysica Acta - General Subjects, 2015, 1850, 1-12.	1.1	48
60	Redox Proteomics Analyses of the Influence of Co-Expression of Wild-Type or Mutated LRRK2 and Tau on C. elegans Protein Expression and Oxidative Modification: Relevance to Parkinson Disease. Antioxidants and Redox Signaling, 2012, 17, 1490-1506.	2.5	43
61	Protein thiolation index (PTI) as a biomarker of oxidative stress. Free Radical Biology and Medicine, 2012, 53, 907-915.	1.3	40
62	Pathophysiology of tobacco smoke exposure: Recent insights from comparative and redox proteomics. Mass Spectrometry Reviews, 2014, 33, 183-218.	2.8	39
63	Physiological Levels of S -Nitrosothiols in Human Plasma. Circulation Research, 2001, 89, .	2.0	38
64	Thiol oxidation and di-tyrosine formation in human plasma proteins induced by inflammatory concentrations of hypochlorous acid. Journal of Proteomics, 2017, 152, 22-32.	1.2	34
65	Membrane skeletal protein S-glutathionylation and hemolysis in human red blood cells. Blood Cells, Molecules, and Diseases, 2006, 37, 180-187.	0.6	30
66	Protein carbonylation in human bronchial epithelial cells exposed to cigarette smoke extract. Cell Biology and Toxicology, 2019, 35, 345-360.	2.4	26
67	Protein carbonylation in human endothelial cells exposed to cigarette smoke extract. Toxicology Letters, 2013, 218, 118-128.	0.4	25
68	Identification of dityrosine cross-linked sites in oxidized human serum albumin. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2016, 1019, 147-155.	1.2	25
69	Protein S-glutathionylation and platelet anti-aggregating activity of disulfiram. Biochemical Pharmacology, 2006, 72, 608-615.	2.0	22
70	Plasma protein thiolation index (PTI) as a biomarker of thiol-specific oxidative stress in haemodialyzed patients. Free Radical Biology and Medicine, 2015, 89, 443-451.	1.3	22
71	Red Blood Cells Protect Albumin from Cigarette Smokeâ€“Induced Oxidation. PLoS ONE, 2012, 7, e29930.	1.1	22
72	Metabolism of oxidants by blood from different mouse strains. Biochemical Pharmacology, 2006, 71, 1753-1764.	2.0	20

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73	Oxidative stress induces a reversible flux of cysteine from tissues to blood inâ€ƒvivo in the rat. FEBS Journal, 2009, 276, 4946-4958.	2.2	20
74	Sex-Related Effects of Reproduction on Biomarkers of Oxidative Damage in Free-living Barn Swallows (Hirundo rustica). PLoS ONE, 2012, 7, e48955.	1.1	20
75	Interference of Plasmatic Reduced Glutathione and Hemolysis on Glutathione Disulfide Levels in Human Blood. Free Radical Research, 2004, 38, 1101-1106.	1.5	19
76	Ukrain Affects Pancreas Cancer Cell Phenotype in vitro by Targeting MMP-9 and Intra-/Extracellular SPARC Expression. Pancreatology, 2010, 10, 545-552.	0.5	19
77	N-acetylcysteine ethyl ester as GSH enhancer in human primary endothelial cells: A comparative study with other drugs. Free Radical Biology and Medicine, 2018, 126, 202-209.	1.3	19
78	Oxidative Damage to Proteins: Structural Modifications and Consequences in Cell Function. , 2006, , 399-471.		18
79	Analysis of thiols. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3271-3273.	1.2	18
80	Cellular redox potential and hemoglobin S-glutathionylation in human and rat erythrocytes: A comparative study. Blood Cells, Molecules, and Diseases, 2010, 44, 133-139.	0.6	18
81	Single Silver Nanoparticle Instillation Induced Early and Persisting Moderate Cortical Damage in Rat Kidneys. International Journal of Molecular Sciences, 2017, 18, 2115.	1.8	17
82	Quantitative Screening of Protein Glycation, Oxidation, and Nitration Adducts by LC-MS/MS: Protein Damage in Diabetes, Uremia, Cirrhosis, and Alzheimer's Disease. , 2006, , 681-727.		16
83	Plasma protein-bound di-tyrosines as biomarkers of oxidative stress in end stage renal disease patients on maintenance haemodialysis. BBA Clinical, 2017, 7, 55-63.	4.1	16
84	Plasma Protein Carbonylation in Haemodialysed Patients: Focus on Diabetes and Gender. Oxidative Medicine and Cellular Longevity, 2018, 2018, 1-12.	1.9	16
85	Membrane Skeletal Protein S-Glutathionylation in Human Red Blood Cells as Index of Oxidative Stress. Chemical Research in Toxicology, 2019, 32, 1096-1102.	1.7	16
86	New insights in extracellular matrix remodeling and collagen turnover related pathways in cultured human tenocytes after ciprofloxacin administration. Muscles, Ligaments and Tendons Journal, 2013, 3, 122-31.	0.1	16
87	Chemical Modification of Proteins by Reactive Oxygen Species. , 2006, , 1-23.		15
88	Plasma Protein Carbonyls as Biomarkers of Oxidative Stress in Chronic Kidney Disease, Dialysis, and Transplantation. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-20.	1.9	15
89	Cigarette smoke induces alterations in the drug-binding properties of human serum albumin. Blood Cells, Molecules, and Diseases, 2014, 52, 166-174.	0.6	13
90	Potential toxicity of environmentally relevant perfluorooctane sulfonate (PFOS) concentrations to yellow-legged gull Larus michahellis embryos. Environmental Science and Pollution Research, 2016, 23, 426-437.	2.7	13

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91	Protein Carbonylation in Human Smokers and Mammalian Models of Exposure to Cigarette Smoke: Focus on Redox Proteomic Studies. Antioxidants and Redox Signaling, 2017, 26, 406-426.	2.5	13
92	Cytotoxic and proinflammatory responses induced by ZnO nanoparticles in in vitro intestinal barrier. Journal of Applied Toxicology, 2019, 39, 1155-1163.	1.4	13
93	Lithium increases actin polymerization rates by enhancing the nucleation step. Journal of Molecular Biology, 1991, 217, 401-404.	2.0	12
94	Is There an Answer?. IUBMB Life, 2005, 57, 189-192.	1.5	12
95	Cigarette smoke and glutathione: Focus on in vitro cell models. Toxicology in Vitro, 2020, 65, 104818.	1.1	12
96	Pancreatic cancer cells retain the epithelial-related phenotype and modify mitotic spindle microtubules after the administration of ukrain in vitro. Anti-Cancer Drugs, 2012, 23, 935-946.	0.7	12
97	Carbonylated Proteins and Their Implication in Physiology and Pathology. , 2006, , 123-168.		11
98	Malignant phenotype of renal cell carcinoma cells is switched by Ukrain administration in vitro. Anti-Cancer Drugs, 2011, 22, 749-762.	0.7	11
99	Advanced oxidation protein products in nondiabetic end stage renal disease patients on maintenance haemodialysis. Free Radical Research, 2019, 53, 1114-1124.	1.5	11
100	Protective CD8+ T-cell responses to cytomegalovirus driven by rAAV/GFP/IE1 loading of dendritic cells. Journal of Translational Medicine, 2008, 6, 56.	1.8	10
101	Determination of protein thiolation index (PTI) as a biomarker of oxidative stress in human serum. Analytical Biochemistry, 2017, 538, 38-41.	1.1	10
102	Effects of Chlorpromazine on Actin Polymerization: Slackening of Filament Elongation and Filament Annealing. Archives of Biochemistry and Biophysics, 1999, 369, 59-67.	1.4	9
103	Effect of Replacement of the Tightly Bound Ca2+by Ba2+on Actin Polymerization. Archives of Biochemistry and Biophysics, 1998, 351, 141-148.	1.4	8
104	Redox Proteomics: A New Approach to Investigate Oxidative Stress in Alzheimer's Disease. , 2006, , 563-603.		8
105	Mass Spectrometry Approaches for the Molecular Characterization of Oxidatively/Nitrosatively Modified Proteins. , 2006, , 59-99.		8
106	Evidence against a role of ketone bodies in the generation of oxidative stress in human erythrocytes by the application of reliable methods for thiol redox form detection. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2009, 877, 3467-3474.	1.2	8
107	Carboplatin-induced alteration of the thiol homeostasis in the isolated perfused rat kidney. Archives of Biochemistry and Biophysics, 2009, 488, 83-89.	1.4	8
108	Antioxidants in smokers. Nutrition Research Reviews, 2021, , 1-28.	2.1	8

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109	Antioxidants and embryo phenotype: is there experimental evidence for strong integration of the antioxidant system?. Journal of Experimental Biology, 2017, 220, 615-624.	0.8	7
110	Anethole Dithiolethione Increases Glutathione in Kidney by Inhibiting Î³-Glutamyltranspeptidase: Biochemical Interpretation and Pharmacological Consequences. Oxidative Medicine and Cellular Longevity, 2020, 2020, 1-13.	1.9	7
111	Degradation and Accumulation of Oxidized Proteins in Age-Related Diseases. , 2006, , 527-562.		6
112	In vitro copper oxide nanoparticle toxicity on intestinal barrier. Journal of Applied Toxicology, 2021, 41, 291-302.	1.4	6
113	Tendon structure and extracellular matrix components are affected by spasticity in cerebral palsy patients. Muscles, Ligaments and Tendons Journal, 2013, 3, 42-50.	0.1	6
114	Interaction of cardiac Î±-actinin and actin in the presence of doxorubicin. Experimental and Molecular Pathology, 1992, 56, 229-238.	0.9	5
115	Familial amyotrophic lateral sclerosis (FALS): Emerging hints from redox proteomics.. Free Radical Biology and Medicine, 2007, 43, 157-159.	1.3	5
116	Yolk vitamin E positively affects prenatal growth but not oxidative status in yellow-legged gull embryos. Environmental Epigenetics, 2018, 64, 285-292.	0.9	5
117	Measurement of S-glutathionylated proteins by HPLC. Amino Acids, 2022, 54, 675-686.	1.2	5
118	Blood Thiol Redox State in Chronic Kidney Disease. International Journal of Molecular Sciences, 2022, 23, 2853.	1.8	5
119	The Covalent Advantage: A New Paradigm for Cell Signaling Mediated by Thiol Reactive Lipid Oxidation Products. , 2006, , 343-367.		4
120	The Chemistry of Protein Modifications Elicited by Nitric Oxide and Related Nitrogen Oxides. , 2006, , 25-58.		4
121	Use of a Proteomic Technique to Identify Oxidant-Sensitive Thiol Proteins in Cultured Cells. , 2006, , 253-265.		4
122	Dietary flavonoids advance timing of moult but do not affect redox status of juvenile blackbirds (Turdus merula). Journal of Experimental Biology, 2016, 219, 3155-3162.	0.8	4
123	Sulforaphane Cannot Protect Human Fibroblasts From Repeated, Short and Sublethal Treatments with Hydrogen Peroxide. International Journal of Environmental Research and Public Health, 2019, 16, 657.	1.2	4
124	Quantitative Determination of Free and Protein-Associated 3-Nitrotyrosine andS-Nitrosothiols in the Circulation by Mass Spectrometry and Other Methodologies: A Critical Review and Discussion from the Analytical and Review Point of View. , 2006, , 287-341.		3
125	Early Molecular Events during Response to Oxidative Stress in Human Cells by Differential Proteomics. , 2006, , 369-397.		3
126	Proteins as Sensitive Biomarkers of Human Conditions Associated with Oxidative Stress. , 2006, , 485-525.		3

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127	Proteome Analysis of Oxidative Stress: Glutathionyl Hemoglobin in Diabetic and Uremic Patients. , 2006, , 651-667.		3
128	Thiol-Disulfide Oxidoreduction of Protein Cysteines: Old Methods Revisited for Proteomics. , 2006, , 101-122.		3
129	Protein thiolation index in microvolumes of plasma. Analytical Biochemistry, 2021, 618, 114125.	1.1	3
130	ICAT (Isotope-Coded Affinity Tag) Approach to Redox Proteomics: Identification and Quantification of Oxidant-Sensitive Protein Thiols. , 2006, , 267-285.		2
131	Oxidized Proteins in Cardiac Ischemia and Reperfusion. , 2006, , 605-649.		2
132	MudPIT (Multidimensional Protein Identification Technology) for Identification of Post-Translational Protein Modifications in Complex Biological Mixtures. , 2006, , 233-252.		2
133	Preliminary experience on the use of sucrosomial iron in hemodialysis: focus on safety, hemoglobin maintenance and oxidative stress. International Urology and Nephrology, 2022, 54, 1145-1153.	0.6	2
134	Oxidative Damage and Cellular Senescence: Lessons from Bacteria and Yeast. , 2006, , 473-484.		1
135	Protein Targets and Functional Consequences of Tyrosine Nitration in Vascular Disease. , 2006, , 729-786.		1
136	Sequestering Agents of Intermediate Reactive Aldehydes as Inhibitors of Advanced Lipoxidation End-Products (ALEs). , 2006, , 877-929.		1
137	S-Nitrosation of Cysteine Thiols as a Redox Signal. , 2006, , 169-188.		1
138	Glyco-oxidative Biochemistry in Diabetic Renal Injury. , 2006, , 669-680.		0
139	Oxidation of Artery Wall Proteins by Myeloperoxidase: A Proteomics Approach. , 2006, , 787-811.		0
140	Oxidative Stress and Protein Oxidation in Pre-Eclampsia. , 2006, , 813-829.		0
141	Involvement of Oxidants in the Etiology of Chronic Airway Diseases: Proteomic Approaches to Identify Redox Processes in Epithelial Cell Signaling and Inflammation. , 2006, , 831-876.		0
142	Detection of Glycated and Glyco-Oxidated Proteins. , 2006, , 189-232.		0