Antonio MartÃ-nez Ruiz

List of Publications by Year
in descending order

77 papers	4,423 citations	109321 35 h-index	106344 65 g-index
82 all docs	82 docs citations	82 times ranked	6808 citing authors

#	Article	IF	Citations
1	S-nitrosylation of Hsp90 promotes the inhibition of its ATPase and endothelial nitric oxide synthase regulatory activities. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 8525-8530.	7.1	294
2	Nitric oxide signaling: Classical, less classical, and nonclassical mechanisms. Free Radical Biology and Medicine, 2011, 51, 17-29.	2.9	294
3	Reactive oxygen species, nutrition, hypoxia and diseases: Problems solved?. Redox Biology, 2015, 6, 372-385.	9.0	279
4	Induction of the Mitochondrial NDUFA4L2 Protein by HIF-1Î± Decreases Oxygen Consumption by Inhibiting Complex I Activity. Cell Metabolism, 2011, 14, 768-779.	16.2	276
5	European contribution to the study of ROS: A summary of the findings and prospects for the future from the COST action BM1203 (EU-ROS). Redox Biology, 2017, 13, 94-162.	9.0	242
6	S-nitrosylation: a potential new paradigm in signal transduction. Cardiovascular Research, 2004, 62, 43-52.	3.8	217
7	Signalling by NO-induced protein S-nitrosylation and S-glutathionylation: Convergences and divergences. Cardiovascular Research, 2007, 75, 220-228.	3.8	161
8	Na+ controls hypoxic signalling by the mitochondrial respiratory chain. Nature, 2020, 586, 287-291.	27.8	139
9	Detection and proteomic identification of S-nitrosylated proteins in endothelial cells. Archives of Biochemistry and Biophysics, 2004, 423, 192-199.	3.0	115
10	Glyceraldehyde-3-Phosphate Dehydrogenase Regulates Endothelin-1 Expression by a Novel, Redox-Sensitive Mechanism Involving mRNA Stability. Molecular and Cellular Biology, 2008, 28, 7139-7155.	2.3	106
11	Acute hypoxia produces a superoxide burst in cells. Free Radical Biology and Medicine, 2014, 71, 146-156.	2.9	106
12	Specificity in S-Nitrosylation: A Short-Range Mechanism for NO Signaling?. Antioxidants and Redox Signaling, 2013, 19, 1220-1235.	5.4	105
13	Characterization of the Antifungal Protein Secreted by the MouldAspergillus giganteus. Archives of Biochemistry and Biophysics, 1995, 324, 273-281.	3.0	101
14	Mitochondrial complex I deactivation is related to superoxide production in acute hypoxia. Redox Biology, 2017, 12, 1040-1051.	9.0	92
15	S-Nitrosylation of the Death Receptor Fas Promotes Fas Ligandâ€“Mediated Apoptosis in Cancer Cells. Gastroenterology, 2011, 140, 2009-2018.e4.	1.3	83
16	Endothelial nitric oxide synthase regulates N-Ras activation on the Golgi complex of antigen-stimulated T cells. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 10507-10512.	7.1	71
17	â€œOxygen Sensingâ€•by Na,K-ATPase: These Miraculous Thiols. Frontiers in Physiology, 2016, 7, 314.	2.8	70
18	HIF1Î± Suppresses Tumor Cell Proliferation through Inhibition of Aspartate Biosynthesis. Cell Reports, 2019, 26, 2257-2265.e4.	6.4	69

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19	Highâ€sensitivity analysis of specific peptides in complex samples by selected MS/MS ion monitoring and linear ion trap mass spectrometry: Application to biological studies. Journal of Mass Spectrometry, 2007, 42, 1391-1403.	1.6	68
20	A Novel Strategy for Global Analysis of the Dynamic Thiol Redox Proteome. Molecular and Cellular Proteomics, 2012, 11, 800-813.	3.8	65
21	Role of Mitochondrial Complex IV in Age-Dependent Obesity. Cell Reports, 2016, 16, 2991-3002.	6.4	65
22	Cyclosporine A-induced nitration of tyrosine 34 MnSOD in endothelial cells: role of mitochondrial superoxide. Cardiovascular Research, 2010, 87, 356-365.	3.8	61
23	Disulfide stress: a novel type of oxidative stress in acute pancreatitis. Free Radical Biology and Medicine, 2014, 70, 265-277.	2.9	61
24	Cbfa-1 mediates nitric oxide regulation of MMP-13 in osteoblasts. Journal of Cell Science, 2006, 119, 1896-1902.	2.0	58
25	Functional interplay between endothelial nitric oxide synthase and membrane type 1â€“matrix metalloproteinase in migrating endothelial cells. Blood, 2007, 110, 2916-2923.	1.4	55
26	Production and detailed characterization of biologically active olive pollen allergen Ole e 1 secreted by the yeast Pichia pastoris. FEBS Journal, 1999, 261, 539-546.	0.2	53
27	Regulation of SCFTIR1/AFBs E3 ligase assembly by S-nitrosylation of ArabidopsisÂSKP1-like1 impacts on auxin signaling. Redox Biology, 2018, 18, 200-210.	9.0	48
28	Role of histidine-50, glutamic acid-96, and histidine-137 in the ribonucleolytic mechanism of the ribotoxin ?-sarcin. , 1999, 37, 474-484.		47
29	Ribotoxins are a more widespread group of proteins within the filamentous fungi than previously believed. Toxicon, 1999, 37, 1549-1563.	1.6	47
30	Nitrosothiols in the Immune System: Signaling and Protection. Antioxidants and Redox Signaling, 2013, 18, 288-308.	5.4	46
31	RNase U2 and Î±-Sarcin: A Study of Relationships. Methods in Enzymology, 2001, 341, 335-351.	1.0	44
32	Two decades of new concepts in nitric oxide signaling: From the discovery of a gas messenger to the mediation of nonenzymatic posttranslational modifications. IUBMB Life, 2009, 61, 91-98.	3.4	43
33	A â€œfluorescence switchâ€•technique increases the sensitivity of proteomic detection and identification of Sâ€•nitrosylated proteins. Proteomics, 2009, 9, 5359-5370.	2.2	41
34	Mitogillin and Related Fungal Ribotoxins. Methods in Enzymology, 2001, 341, 324-335.	1.0	40
35	Differential redox proteomics allows identification of proteins reversibly oxidized at cysteine residues in endothelial cells in response to acute hypoxia. Journal of Proteomics, 2012, 75, 5449-5462.	2.4	39
36	Anomalous electrophoretic behavior of a very acidic protein: Ribonuclease U2. Electrophoresis, 2005, 26, 3407-3413.	2.4	38

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37	The cytotoxin Î±-sarcin behaves as a cyclizing ribonuclease. FEBS Letters, 1998, 424, 46-48.	2.8	36
38	Overproduction in Escherichia coli and Purification of the Hemolytic Protein Sticholysin II from the Sea Anemone Stichodactyla helianthus. Protein Expression and Purification, 2000, 18, 71-76.	1.3	36
39	Substitution of histidine-137 by glutamine abolishes the catalytic activity of the ribosome-inactivating protein Î±-sarcin. Biochemical Journal, 1995, 309, 581-586.	3.7	33
40	Secretion of Recombinant Pro- and Mature Fungal Î±-Sarcin Ribotoxin by the Methylotrophic YeastPichia pastoris:The Lysâ€“Arg Motif Is Required for Maturation. Protein Expression and Purification, 1998, 12, 315-322.	1.3	32
41	Nitric oxide mimics transcriptional and post-translational regulation during Î±-Tocopherol cytoprotection against glycochenodeoxycholate-induced cell death in hepatocytes. Journal of Hepatology, 2011, 55, 133-144.	3.7	32
42	Characterization of a natural larger form of the antifungal protein (AFP) from Aspergillus giganteus. BBA - Proteins and Proteomics, 1997, 1340, 81-87.	2.1	31
43	Assignment of the contribution of the tryptophan residues to the spectroscopic and functional properties of the ribotoxin ?-sarcin. Proteins: Structure, Function and Bioinformatics, 2000, 41, 350-361.	2.6	29
44	Thiol redox proteomics seen with fluorescent eyes: The detection of cysteine oxidative modifications by fluorescence derivatization and 2-DE. Journal of Proteomics, 2011, 75, 329-338.	2.4	29
45	eNOS S-nitrosylates Î²-actin on Cys374 and regulates PKC-Î¸ at the immune synapse by impairing actin binding to profilin-1. PLoS Biology, 2017, 15, e2000653.	5.6	25
46	Sequence Determination and Molecular Characterization of Gigantin, a Cytotoxic Protein Produced by the MouldAspergillus giganteusIFO 5818. Archives of Biochemistry and Biophysics, 1997, 343, 188-193.	3.0	24
47	Arginine 121 is a crucial residue for the specific cytotoxic activity of the ribotoxin Î±-sarcin. FEBS Journal, 2001, 268, 6190-6196.	0.2	24
48	R-Ras2 is required for germinal center formation to aid B cells during energetically demanding processes. Science Signaling, 2018, 11, .	3.6	24
49	Proteomic Identification of S-Nitrosylated Proteins in Endothelial Cells. , 2007, 357, 215-224.		22
50	Detection and Identification of Sâ€Nitrosylated Proteins in Endothelial Cells. Methods in Enzymology, 2005, 396, 131-139.	1.0	20
51	The solubility of the ribotoxin alpha-sarcin, produced as a recombinant protein in Escherichia coli, is increased in the presence of thioredoxin. Letters in Applied Microbiology, 2000, 30, 298-302.	2.2	18
52	Sâ€nitrosation and neuronal plasticity. British Journal of Pharmacology, 2015, 172, 1468-1478.	5.4	18
53	Trifluoperazine-Induced Suicidal Erythrocyte Death and S-Nitrosylation Inhibition, Reversed by the Nitric Oxide Donor Sodium Nitroprusside. Cellular Physiology and Biochemistry, 2017, 42, 1985-1998.	1.6	18
54	Hirsutellin A Displays Significant Homology to Microbial Extracellular Ribonucleases. Journal of Invertebrate Pathology, 1999, 74, 96-97.	3.2	17

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55	The specific PKC-Î± inhibitor chelerythrine blunts costunolide-induced eryptosis. Apoptosis: an International Journal on Programmed Cell Death, 2020, 25, 674-685.	4.9	16
56	Downregulation of thioredoxin-1-dependent CD95 S-nitrosation by Sorafenib reduces liver cancer. Redox Biology, 2020, 34, 101528.	9.0	16
57	Hypoxia and Redox Signaling on Extracellular Matrix Remodeling: From Mechanisms to Pathological Implications. Antioxidants and Redox Signaling, 2017, 27, 802-822.	5.4	15
58	Ebselen alters cellular oxidative status and induces endoplasmic reticulum stress in rat hippocampal astrocytes. Toxicology, 2016, 357-358, 74-84.	4.2	14
59	Ebselen impairs cellular oxidative state and induces endoplasmic reticulum stress and activation of crucial mitogenâ€activated protein kinases in pancreatic tumour AR42J cells. Journal of Cellular Biochemistry, 2018, 119, 1122-1133.	2.6	14
60	S-Nitrosylation of Ras Mediates Nitric Oxide-Dependent Post-Injury Neurogenesis in a Seizure Model. Antioxidants and Redox Signaling, 2018, 28, 15-30.	5.4	13
61	Nitric Oxide Down-regulates Caveolin-3 Levels through the Interaction with Myogenin, Its Transcription Factor. Journal of Biological Chemistry, 2007, 282, 23044-23054.	3.4	12
62	<scp>L</scp>â€selectin expression is regulated by CXCL8â€induced reactive oxygen species produced during human neutrophil rolling. European Journal of Immunology, 2019, 49, 386-397.	2.9	12
63	Metabolic adaptations in spontaneously immortalized PGC-1Î± knock-out mouse embryonic fibroblasts increase their oncogenic potential. Redox Biology, 2020, 29, 101396.	9.0	12
64	Human glutathione-S-transferase pi potentiates the cysteine-protease activity of the Der p 1 allergen from house dust mite through a cysteine redox mechanism. Redox Biology, 2019, 26, 101256.	9.0	10
65	Nitrosylation of thiols in vascular homeostasis and disease. Current Atherosclerosis Reports, 2005, 7, 213-218.	4.8	9
66	Ribonuclease U2: cloning, production inPichia pastorisand affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	1.8	8
67	Ribonuclease U2: cloning, production in Pichia pastoris and affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	1.8	8
68	Early cysteine-dependent inactivation of 26S proteasomes does not involve particle disassembly. Redox Biology, 2018, 16, 123-128.	9.0	6
69	S-Nitrosation of E3 Ubiquitin Ligase Complex Components Regulates Hormonal Signalings in Arabidopsis. Frontiers in Plant Science, 2021, 12, 794582.	3.6	6
70	Identification of S-Nitrosylated and Reversibly Oxidized Proteins by Fluorescence Switch and Complementary Techniques. Methods in Molecular Biology, 2018, 1747, 73-87.	0.9	5
71	Post-Translational Nitric Oxideâ€“Dependent Modifications In Immune System. Redox Biology, 2015, 5, 418-419.	9.0	4
72	The <scp>APP</scp>swe/<scp>PS</scp>1A246E mutations in an astrocytic cell line leads to increased vulnerability to oxygen and glucose deprivation, Ca²⁺ dysregulation, and mitochondrial abnormalities. Journal of Neurochemistry, 2018, 145, 170-182.	3.9	4

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73	Identification of new targets of S-nitrosylation in neural stem cells by thiol redox proteomics. Redox Biology, 2020, 32, 101457.	9.0	4
74	Stemness of Human Pluripotent Cells: Hypoxia-Like Response Induced by Low Nitric Oxide. Antioxidants, 2021, 10, 1408.	5.1	3
75	Relationship between immunometabolic status and cognitive performance among major depression disorder patients. Psychoneuroendocrinology, 2022, 137, 105631.	2.7	2
76	Measurement of Superoxide Production in Acute Hypoxia by Fixed-Cell Microscopy. Methods in Molecular Biology, 2021, 2202, 43-50.	0.9	1
77	Disulfide Stress and its Targets in Acute Pancreatitis. Inflammation and Allergy: Drug Targets, 2015, 13, 312-322.	1.8	1