

Antonio MartÃ-nez Ruiz

List of Publications by Year in descending order

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77
papers

4,423
citations

109137

35
h-index

106150

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. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005, 102, 8525-8530.	3.3	294
2	Nitric oxide signaling: Classical, less classical, and nonclassical mechanisms. <i>Free Radical Biology and Medicine</i> , 2011, 51, 17-29.	1.3	294
3	Reactive oxygen species, nutrition, hypoxia and diseases: Problems solved?. <i>Redox Biology</i> , 2015, 6, 372-385.	3.9	279
4	Induction of the Mitochondrial NDUFA4L2 Protein by HIF-1 α Decreases Oxygen Consumption by Inhibiting Complex I Activity. <i>Cell Metabolism</i> , 2011, 14, 768-779.	7.2	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). <i>Redox Biology</i> , 2017, 13, 94-162.	3.9	242
6	S-nitrosylation: a potential new paradigm in signal transduction. <i>Cardiovascular Research</i> , 2004, 62, 43-52.	1.8	217
7	Signalling by NO-induced protein S-nitrosylation and S-glutathionylation: Convergences and divergences. <i>Cardiovascular Research</i> , 2007, 75, 220-228.	1.8	161
8	Na ⁺ controls hypoxic signalling by the mitochondrial respiratory chain. <i>Nature</i> , 2020, 586, 287-291.	13.7	139
9	Detection and proteomic identification of S-nitrosylated proteins in endothelial cells. <i>Archives of Biochemistry and Biophysics</i> , 2004, 423, 192-199.	1.4	115
10	Glyceraldehyde-3-Phosphate Dehydrogenase Regulates Endothelin-1 Expression by a Novel, Redox-Sensitive Mechanism Involving mRNA Stability. <i>Molecular and Cellular Biology</i> , 2008, 28, 7139-7155.	1.1	106
11	Acute hypoxia produces a superoxide burst in cells. <i>Free Radical Biology and Medicine</i> , 2014, 71, 146-156.	1.3	106
12	Specificity in S-Nitrosylation: A Short-Range Mechanism for NO Signaling?. <i>Antioxidants and Redox Signaling</i> , 2013, 19, 1220-1235.	2.5	105
13	Characterization of the Antifungal Protein Secreted by the Mould <i>Aspergillus giganteus</i> . <i>Archives of Biochemistry and Biophysics</i> , 1995, 324, 273-281.	1.4	101
14	Mitochondrial complex I deactivation is related to superoxide production in acute hypoxia. <i>Redox Biology</i> , 2017, 12, 1040-1051.	3.9	92
15	S-Nitrosylation of the Death Receptor Fas Promotes Fas Ligand-Mediated Apoptosis in Cancer Cells. <i>Gastroenterology</i> , 2011, 140, 2009-2018.e4.	0.6	83
16	Endothelial nitric oxide synthase regulates N-Ras activation on the Golgi complex of antigen-stimulated T cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2008, 105, 10507-10512.	3.3	71
17	“Oxygen Sensing” by Na,K-ATPase: These Miraculous Thiols. <i>Frontiers in Physiology</i> , 2016, 7, 314.	1.3	70
18	HIF1 α Suppresses Tumor Cell Proliferation through Inhibition of Aspartate Biosynthesis. <i>Cell Reports</i> , 2019, 26, 2257-2265.e4.	2.9	69

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19	High sensitivity analysis of specific peptides in complex samples by selected MS/MS ion monitoring and linear ion trap mass spectrometry: Application to biological studies. <i>Journal of Mass Spectrometry</i> , 2007, 42, 1391-1403.	0.7	68
20	A Novel Strategy for Global Analysis of the Dynamic Thiol Redox Proteome. <i>Molecular and Cellular Proteomics</i> , 2012, 11, 800-813.	2.5	65
21	Role of Mitochondrial Complex IV in Age-Dependent Obesity. <i>Cell Reports</i> , 2016, 16, 2991-3002.	2.9	65
22	Cyclosporine A-induced nitration of tyrosine 34 MnSOD in endothelial cells: role of mitochondrial superoxide. <i>Cardiovascular Research</i> , 2010, 87, 356-365.	1.8	61
23	Disulfide stress: a novel type of oxidative stress in acute pancreatitis. <i>Free Radical Biology and Medicine</i> , 2014, 70, 265-277.	1.3	61
24	Cbfa-1 mediates nitric oxide regulation of MMP-13 in osteoblasts. <i>Journal of Cell Science</i> , 2006, 119, 1896-1902.	1.2	58
25	Functional interplay between endothelial nitric oxide synthase and membrane type 1 matrix metalloproteinase in migrating endothelial cells. <i>Blood</i> , 2007, 110, 2916-2923.	0.6	55
26	Production and detailed characterization of biologically active olive pollen allergen Ole e 1 secreted by the yeast <i>Pichia pastoris</i> . <i>FEBS Journal</i> , 1999, 261, 539-546.	0.2	53
27	Regulation of SCFTIR1/AFBs E3 ligase assembly by S-nitrosylation of Arabidopsis ASK1-like1 impacts on auxin signaling. <i>Redox Biology</i> , 2018, 18, 200-210.	3.9	48
28	Role of histidine-50, glutamic acid-96, and histidine-137 in the ribonucleolytic mechanism of the ribotoxin γ -sarcin. , 1999, 37, 474-484.		47
29	Ribotoxins are a more widespread group of proteins within the filamentous fungi than previously believed. <i>Toxicon</i> , 1999, 37, 1549-1563.	0.8	47
30	Nitrosothiols in the Immune System: Signaling and Protection. <i>Antioxidants and Redox Signaling</i> , 2013, 18, 288-308.	2.5	46
31	RNase U2 and γ -Sarcin: A Study of Relationships. <i>Methods in Enzymology</i> , 2001, 341, 335-351.	0.4	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. <i>IUBMB Life</i> , 2009, 61, 91-98.	1.5	43
33	A fluorescence switch technique increases the sensitivity of proteomic detection and identification of S-nitrosylated proteins. <i>Proteomics</i> , 2009, 9, 5359-5370.	1.3	41
34	Mitogillin and Related Fungal Ribotoxins. <i>Methods in Enzymology</i> , 2001, 341, 324-335.	0.4	40
35	Differential redox proteomics allows identification of proteins reversibly oxidized at cysteine residues in endothelial cells in response to acute hypoxia. <i>Journal of Proteomics</i> , 2012, 75, 5449-5462.	1.2	39
36	Anomalous electrophoretic behavior of a very acidic protein: Ribonuclease U2. <i>Electrophoresis</i> , 2005, 26, 3407-3413.	1.3	38

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37	The cytotoxin α -sarcin behaves as a cyclizing ribonuclease. FEBS Letters, 1998, 424, 46-48.	1.3	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.	0.6	36
39	Substitution of histidine-137 by glutamine abolishes the catalytic activity of the ribosome-inactivating protein α -sarcin. Biochemical Journal, 1995, 309, 581-586.	1.7	33
40	Secretion of Recombinant Pro- and Mature Fungal α -Sarcin Ribotoxin by the Methylophilic Yeast Pichia pastoris: The Lys-Arg Motif Is Required for Maturation. Protein Expression and Purification, 1998, 12, 315-322.	0.6	32
41	Nitric oxide mimics transcriptional and post-translational regulation during α -Tocopherol cytoprotection against glycochenodeoxycholate-induced cell death in hepatocytes. Journal of Hepatology, 2011, 55, 133-144.	1.8	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 α -sarcin. Proteins: Structure, Function and Bioinformatics, 2000, 41, 350-361.	1.5	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.	1.2	29
45	eNOS S-nitrosylates β -actin on Cys374 and regulates PKC- β at the immune synapse by impairing actin binding to profilin-1. PLoS Biology, 2017, 15, e2000653.	2.6	25
46	Sequence Determination and Molecular Characterization of Gigantin, a Cytotoxic Protein Produced by the Mould Aspergillus giganteus FO 5818. Archives of Biochemistry and Biophysics, 1997, 343, 188-193.	1.4	24
47	Arginine 121 is a crucial residue for the specific cytotoxic activity of the ribotoxin α -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, .	1.6	24
49	Proteomic Identification of S-Nitrosylated Proteins in Endothelial Cells. , 2007, 357, 215-224.		22
50	Detection and Identification of S-Nitrosylated Proteins in Endothelial Cells. Methods in Enzymology, 2005, 396, 131-139.	0.4	20
51	The solubility of the ribotoxin α -sarcin, produced as a recombinant protein in Escherichia coli, is increased in the presence of thioredoxin. Letters in Applied Microbiology, 2000, 30, 298-302.	1.0	18
52	S-nitrosation and neuronal plasticity. British Journal of Pharmacology, 2015, 172, 1468-1478.	2.7	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.	1.1	18
54	Hirsutellin A Displays Significant Homology to Microbial Extracellular Ribonucleases. Journal of Invertebrate Pathology, 1999, 74, 96-97.	1.5	17

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55	The specific PKC- ζ inhibitor chelerythrine blunts costunolide-induced eryptosis. Apoptosis: an International Journal on Programmed Cell Death, 2020, 25, 674-685.	2.2	16
56	Downregulation of thioredoxin-1-dependent CD95 S-nitrosation by Sorafenib reduces liver cancer. Redox Biology, 2020, 34, 101528.	3.9	16
57	Hypoxia and Redox Signaling on Extracellular Matrix Remodeling: From Mechanisms to Pathological Implications. Antioxidants and Redox Signaling, 2017, 27, 802-822.	2.5	15
58	Ebselen alters cellular oxidative status and induces endoplasmic reticulum stress in rat hippocampal astrocytes. Toxicology, 2016, 357-358, 74-84.	2.0	14
59	Ebselen impairs cellular oxidative state and induces endoplasmic reticulum stress and activation of crucial mitogen-activated protein kinases in pancreatic tumour AR42J cells. Journal of Cellular Biochemistry, 2018, 119, 1122-1133.	1.2	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.	2.5	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.	1.6	12
62	Cxcl8-induced reactive oxygen species produced during human neutrophil rolling. European Journal of Immunology, 2019, 49, 386-397.	1.6	12
63	Metabolic adaptations in spontaneously immortalized PGC-1 β knock-out mouse embryonic fibroblasts increase their oncogenic potential. Redox Biology, 2020, 29, 101396.	3.9	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.	3.9	10
65	Nitrosylation of thiols in vascular homeostasis and disease. Current Atherosclerosis Reports, 2005, 7, 213-218.	2.0	9
66	Ribonuclease U2: cloning, production in Pichia pastoris and affinity chromatography purification of the active recombinant protein. FEMS Microbiology Letters, 2000, 189, 165-169.	0.7	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.	0.7	8
68	Early cysteine-dependent inactivation of 26S proteasomes does not involve particle disassembly. Redox Biology, 2018, 16, 123-128.	3.9	6
69	S-Nitrosation of E3 Ubiquitin Ligase Complex Components Regulates Hormonal Signalings in Arabidopsis. Frontiers in Plant Science, 2021, 12, 794582.	1.7	6
70	Identification of S-Nitrosylated and Reversibly Oxidized Proteins by Fluorescence Switch and Complementary Techniques. Methods in Molecular Biology, 2018, 1747, 73-87.	0.4	5
71	Post-Translational Nitric Oxide-Dependent Modifications In Immune System. Redox Biology, 2015, 5, 418-419.	3.9	4
72	The APP ^{swe} /PS ^{1A246E} mutations in an astrocytic cell line leads to increased vulnerability to oxygen and glucose deprivation, Ca ²⁺ dysregulation, and mitochondrial abnormalities. Journal of Neurochemistry, 2018, 145, 170-182.	2.1	4

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73	Identification of new targets of S-nitrosylation in neural stem cells by thiol redox proteomics. <i>Redox Biology</i> , 2020, 32, 101457.	3.9	4
74	Stemness of Human Pluripotent Cells: Hypoxia-Like Response Induced by Low Nitric Oxide. <i>Antioxidants</i> , 2021, 10, 1408.	2.2	3
75	Relationship between immunometabolic status and cognitive performance among major depression disorder patients. <i>Psychoneuroendocrinology</i> , 2022, 137, 105631.	1.3	2
76	Measurement of Superoxide Production in Acute Hypoxia by Fixed-Cell Microscopy. <i>Methods in Molecular Biology</i> , 2021, 2202, 43-50.	0.4	1
77	Disulfide Stress and its Targets in Acute Pancreatitis. <i>Inflammation and Allergy: Drug Targets</i> , 2015, 13, 312-322.	1.8	1