Anna Rubartelli

List of Publications by Year
in descending order

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109 papers	14,005 citations	30047 54 h-index	28275 105 g-index
111 all docs	111 docs citations	111 times ranked	19400 citing authors

#	Article	IF	Citations
1	Monocytic cells hyperacetylate chromatin protein HMGB1 to redirect it towards secretion. EMBO Journal, 2003, 22, 5551-5560.	3.5	1,071
2	The nuclear protein HMGB1 is secreted by monocytes via a nonâ€classical, vesicleâ€mediated secretory pathway. EMBO Reports, 2002, 3, 995-1001.	2.0	818
3	Differential requirement for the activation of the inflammasome for processing and release of IL-1Î² in monocytes and macrophages. Blood, 2009, 113, 2324-2335.	0.6	714
4	Consensus guidelines for the detection of immunogenic cell death. OncoImmunology, 2014, 3, e955691.	2.1	686
5	The grateful dead: damageâ€associated molecular pattern molecules and reduction/oxidation regulate immunity. Immunological Reviews, 2007, 220, 60-81.	2.8	565
6	Inside, outside, upside down: damage-associated molecular-pattern molecules (DAMPs) and redox. Trends in Immunology, 2007, 28, 429-436.	2.9	534
7	Guidelines for the use of flow cytometry and cell sorting in immunological studies[*]. European Journal of Immunology, 2017, 47, 1584-1797.	1.6	505
8	ATP is released by monocytes stimulated with pathogen-sensing receptor ligands and induces IL-1Î² and IL-18 secretion in an autocrine way. Proceedings of the National Academy of Sciences of the United States of America, 2008, 105, 8067-8072.	3.3	429
9	The Secretory Route of the Leaderless Protein Interleukin 1Î² Involves Exocytosis of Endolysosome-related Vesicles. Molecular Biology of the Cell, 1999, 10, 1463-1475.	0.9	427
10	Nerve Growth Factor Is an Autocrine Survival Factor for Memory B Lymphocytes. Cell, 1996, 85, 345-356.	13.5	394
11	From The Cover: Phospholipases C and A2 control lysosome-mediated IL-1Â secretion: Implications for inflammatory processes. Proceedings of the National Academy of Sciences of the United States of America, 2004, 101, 9745-9750.	3.3	360
12	The pattern of response to antiâ€“interleukinâ€1 treatment distinguishes two subsets of patients with systemicâ€onset juvenile idiopathic arthritis. Arthritis and Rheumatism, 2008, 58, 1505-1515.	6.7	346
13	OLT1177, a Î²-sulfonyl nitrile compound, safe in humans, inhibits the NLRP3 inflammasome and reverses the metabolic cost of inflammation. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E1530-E1539.	3.3	346
14	Antigen-presenting dendritic cells provide the reducing extracellular microenvironment required for T lymphocyte activation. Proceedings of the National Academy of Sciences of the United States of America, 2002, 99, 1491-1496.	3.3	342
15	Masquerader: High Mobility Group Box-1 and Cancer. Clinical Cancer Research, 2007, 13, 2836-2848.	3.2	335
16	IL-1 family nomenclature. Nature Immunology, 2010, 11, 973-973.	7.0	294
17	NK/iDC interaction results in IL-18 secretion by DCs at the synaptic cleft followed by NK cell activation and release of the DC maturation factor HMGB1. Blood, 2005, 106, 609-616.	0.6	293
18	A novel pathway for secretory proteins?. Trends in Biochemical Sciences, 1990, 15, 86-88.	3.7	285

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19	The selective engulfment of apoptotic bodies by dendritic cells is mediated by the Î±vÎ²3 integrin and requires intracellular and extracellular calcium. European Journal of Immunology, 1997, 27, 1893-1900.	1.6	236
20	Pattern of interleukinâ€1Î² secretion in response to lipopolysaccharide and ATP before and after interleukinâ€1 blockade in patients with CIAS1 mutations. Arthritis and Rheumatism, 2007, 56, 3138-3148.	6.7	229
21	Interleukin-1Î² Secretion Is Impaired by Inhibitors of the Atp Binding Cassette Transporter, ABC1. Blood, 1997, 90, 2911-2915.	0.6	207
22	Role of caspase-1 in nuclear translocation of IL-37, release of the cytokine, and IL-37 inhibition of innate immune responses. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 2650-2655.	3.3	182
23	Clinical presentation and pathogenesis of cold-induced autoinflammatory disease in a family with recurrence of an NLRP12 mutation. Arthritis and Rheumatism, 2011, 63, 830-839.	6.7	162
24	Histone deacetylase inhibitors prevent exocytosis of interleukin-1Î²-containing secretory lysosomes: role of microtubules. Blood, 2006, 108, 1618-1626.	0.6	138
25	Interleukin 1 as an autocrine growth factor for acute myeloid leukemia cells.. Proceedings of the National Academy of Sciences of the United States of America, 1989, 86, 2369-2373.	3.3	133
26	Altered redox state of monocytes from cryopyrin-associated periodic syndromes causes accelerated IL-1Î² secretion. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 9789-9794.	3.3	129
27	The secretion of IL-1Î² and options for release. Seminars in Immunology, 2013, 25, 425-429.	2.7	119
28	B- to Plasma-Cell Terminal Differentiation Entails Oxidative Stress and Profound Reshaping of the Antioxidant Responses. Antioxidants and Redox Signaling, 2010, 13, 1133-1144.	2.5	110
29	HIV-1 Tat: a polypeptide for all seasons. Trends in Immunology, 1998, 19, 543-545.	7.5	108
30	Increased NLRP3-dependent interleukin 1Î² secretion in patients with familial Mediterranean fever: correlation withMEFVgenotype. Annals of the Rheumatic Diseases, 2014, 73, 462-469.	0.5	108
31	Cell stress increases ATP release in NLRP3 inflammasome-mediated autoinflammatory diseases, resulting in cytokine imbalance. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2835-2840.	3.3	106
32	Damage associated molecular pattern molecules. Clinical Immunology, 2007, 124, 1-4.	1.4	100
33	Eosinophils Oxidize Damage-Associated Molecular Pattern Molecules Derived from Stressed Cells. Journal of Immunology, 2009, 183, 5023-5031.	0.4	96
34	DAMPs and inflammatory processes: the role of redox in the different outcomes. Journal of Leukocyte Biology, 2009, 86, 549-555.	1.5	96
35	The Rate of Interleukin-1Î² Secretion in Different Myeloid Cells Varies with the Extent of Redox Response to Toll-like Receptor Triggering. Journal of Biological Chemistry, 2011, 286, 27069-27080.	1.6	96
36	Redox control of NLRP3 inflammasome activation in health and disease. Journal of Leukocyte Biology, 2012, 92, 951-958.	1.5	94

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37	Pathogen-Induced Interleukin-1Î² Processing and Secretion Is Regulated by a Biphasic Redox Response. Journal of Immunology, 2009, 183, 1456-1462.	0.4	93
38	Redox Remodeling Allows and Controls B-Cell Activation and Differentiation. Antioxidants and Redox Signaling, 2010, 13, 1145-1155.	2.5	83
39	Stress Regulates Aquaporin-8 Permeability to Impact Cell Growth and Survival. Antioxidants and Redox Signaling, 2016, 24, 1031-1044.	2.5	82
40	NK Cell Activation by Dendritic Cells Is Dependent on LFA-1-Mediated Induction of Calcium-Calmodulin Kinase II: Inhibition by HIV-1 Tat C-Terminal Domain. Journal of Immunology, 2002, 168, 95-101.	0.4	80
41	Different Members of the IL-1 Family Come Out in Different Ways: DAMPs vs. Cytokines?. Frontiers in Immunology, 2013, 4, 123.	2.2	78
42	Differential intracellular trafficking, secretion and endosomal localization of two IL-15 isoforms. European Journal of Immunology, 1999, 29, 1265-1274.	1.6	75
43	Interplay between redox status and inflammasome activation. Trends in Immunology, 2011, 32, 559-566.	2.9	74
44	The redox state of the lung cancer microenvironment depends on the levels of thioredoxin expressed by tumor cells and affects tumor progression and response to prooxidants. International Journal of Cancer, 2008, 123, 1770-1778.	2.3	73
45	TLR Costimulation Causes Oxidative Stress with Unbalance of Proinflammatory and Anti-Inflammatory Cytokine Production. Journal of Immunology, 2014, 192, 5373-5381.	0.4	73
46	Interleukin-18 synthesis and secretion by dendritic cells are modulated by interaction with antigen-specific T cells. Journal of Leukocyte Biology, 1999, 66, 237-241.	1.5	69
47	Engagement of NOD2 has a dual effect on proILâ€1Î² mRNA transcription and secretion of bioactive ILâ€1Î². European Journal of Immunology, 2008, 38, 184-191.	1.6	69
48	Involvement of Dihydropyridine-sensitive Calcium Channels in Human Dendritic Cell Function. Journal of Biological Chemistry, 1998, 273, 7205-7209.	1.6	67
49	CD8+ T lymphocytes induce polarized exocytosis of secretory lysosomes by dendritic cells with release of interleukin-1Î² and cathepsin D. Blood, 2001, 98, 2152-2159.	0.6	66
50	The thiol redox state of lymphoid organs is modified by immunization: Role of different immune cell populations. European Journal of Immunology, 2008, 38, 2419-2425.	1.6	66
51	Synthesis and Secretion of Interleukin-1Î± and Intedeukin-1 Receptor Antagonist during Differentiation of Cultured Keratinocytes. Experimental Cell Research, 1995, 217, 355-362.	1.2	65
52	High-Mobility Group Box 1 Release and Redox Regulation Accompany Regeneration and Remodeling of Skeletal Muscle. Antioxidants and Redox Signaling, 2011, 15, 2161-2174.	2.5	61
53	Inflammation, DAMPs, Tumor Development, and Progression: A Vicious Circle Orchestrated by Redox Signaling. Antioxidants and Redox Signaling, 2014, 20, 1086-1097.	2.5	61
54	Extracellular ATP induces the rapid release of HIV-1 from virus containing compartments of human macrophages. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, E3265-73.	3.3	61

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55	Progressive waves of IL-1Î² release by primary human monocytes via sequential activation of vesicular and gasdermin D-mediated secretory pathways. Cell Death and Disease, 2018, 9, 1088.	2.7	61
56	MLR3 molecule is an activation antigen shared by human B, T lymphocytes and T cell precursors. European Journal of Immunology, 1989, 19, 323-328.	1.6	54
57	Post-translational regulation of interleukin 1Î² secretion. Cytokine, 1993, 5, 117-124.	1.4	53
58	Control of interleukin-18 secretion by dendritic cells: role of calcium influxes. FEBS Letters, 2000, 481, 245-248.	1.3	52
59	Expression and function of NKRP1A molecule on human monocytes and dendritic cells. European Journal of Immunology, 1997, 27, 2965-2970.	1.6	50
60	Disease activity accounts for long-term efficacy of IL-1 blockers in pyogenic sterile arthritis pyoderma gangrenosum and severe acne syndrome. Rheumatology, 2016, 55, 1325-1335.	0.9	48
61	The unconventional secretion of IL-1Î²: Handling a dangerous weapon to optimize inflammatory responses. Seminars in Cell and Developmental Biology, 2018, 83, 12-21.	2.3	47
62	DAMP-Mediated Activation of NLRP3-Inflammasome in Brain Sterile Inflammation: The Fine Line between Healing and Neurodegeneration. Frontiers in Immunology, 2014, 5, 99.	2.2	46
63	TCTP is a critical survival factor that protects cancer cells from oxidative stress-induced cell-death. Experimental Cell Research, 2011, 317, 2479-2489.	1.2	45
64	Deficient production of IL-1 receptor antagonist and IL-6 coupled to oxidative stress in cryopyrin-associated periodic syndrome monocytes. Annals of the Rheumatic Diseases, 2012, 71, 1577-1581.	0.5	45
65	Mechanisms of Sterile Inflammation. Frontiers in Immunology, 2013, 4, 398.	2.2	45
66	A persulfidation-based mechanism controls aquaporin-8 conductance. Science Advances, 2018, 4, eaar5770.	4.7	44
67	Nuclear translocation of an exogenous fusion protein containing HIV Tat requires unfolding. Aids, 1995, 9, 995-1000.	1.0	43
68	Expression of interleukin-18 in human ovarian carcinoma and normal ovarian epithelium: Evidence for defective processing in tumor cells. International Journal of Cancer, 2002, 98, 873-878.	2.3	42
69	The Cystine/Cysteine Cycle and GSH Are Independent and Crucial Antioxidant Systems in Malignant Melanoma Cells and Represent Druggable Targets. Antioxidants and Redox Signaling, 2011, 15, 2439-2453.	2.5	41
70	Proton pump inhibitors protect mice from acute systemic inflammation and induce long-term cross-tolerance. Cell Death and Disease, 2016, 7, e2304-e2304.	2.7	40
71	Redox-Mediated Mechanisms Fuel Monocyte Responses to CXCL12/HMGB1 in Active Rheumatoid Arthritis. Frontiers in Immunology, 2018, 9, 2118.	2.2	40
72	Secretion of Mammalian Proteins that Lack a Signal Sequence. Molecular Biology Intelligence Unit, 1997, , 87-114.	0.2	39

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73	The RGD-containing domain of exogenous HIV-1 Tat inhibits the engulfment of apoptotic bodies by dendritic cells. Aids, 1997, 11, 1227-1235.	1.0	38
74	Secretion of bioactive interleukin-1Î² by dendritic cells is modulated by interaction with antigen specific T cells. Blood, 2000, 95, 3809-3815.	0.6	37
75	ABCA2 is a marker of neural progenitors and neuronal subsets in the adult rodent brain. Journal of Neurochemistry, 2006, 97, 345-355.	2.1	36
76	Dysregulated IL-1Î² Secretion in Autoinflammatory Diseases: A Matter of Stress?. Frontiers in Immunology, 2017, 8, 345.	2.2	36
77	The maturation potential of NK cell clones toward autologous dendritic cells correlates with HMGB1 secretion. Journal of Leukocyte Biology, 2007, 81, 92-99.	1.5	35
78	On the Redox Control of B Lymphocyte Differentiation and Function. Antioxidants and Redox Signaling, 2012, 16, 1139-1149.	2.5	35
79	Stress as an Intercellular Signal: The Emergence of Stress-Associated Molecular Patterns (SAMP). Antioxidants and Redox Signaling, 2009, 11, 2621-2629.	2.5	31
80	Clinical Characteristics of Patients Carrying the Q703K Variant of the NLRP3 Gene: A 10-year Multicentric National Study. Journal of Rheumatology, 2016, 43, 1093-1100.	1.0	31
81	Redox remodeling: a candidate regulator of HMGB1 function in injured skeletal muscle. Annals of the New York Academy of Sciences, 2010, 1209, 83-90.	1.8	29
82	Increased myocardial 18F-FDG uptake as a marker of Doxorubicin-induced oxidative stress. Journal of Nuclear Cardiology, 2020, 27, 2183-2194.	1.4	29
83	Evolution, role in inflammation, and redox control of leaderless secretory proteins. Journal of Biological Chemistry, 2020, 295, 7799-7811.	1.6	29
84	Cryopyrin-associated Periodic Syndromes in Italian Patients: Evaluation of the Rate of Somatic NLRP3 Mosaicism and Phenotypic Characterization. Journal of Rheumatology, 2017, 44, 1667-1673.	1.0	28
85	KIF3C, a Novel Member of the Kinesin Superfamily: Sequence, Expression, and Mapping to Human Chromosome 2 at 2p23. Genomics, 1998, 47, 405-408.	1.3	27
86	Redox distress and genetic defects conspire in systemic autoinflammatory diseases. Nature Reviews Rheumatology, 2015, 11, 670-680.	3.5	26
87	Rebalancing expression of HMGB1 redox isoforms to counteract muscular dystrophy. Science Translational Medicine, 2021, 13, .	5.8	26
88	A novel isoform of pro-interleukin-18 expressed in ovarian tumors is resistant to caspase-1 and -4 processing. Oncogene, 2004, 23, 7552-7560.	2.6	25
89	Autoinflammatory diseases. Immunology Letters, 2014, 161, 226-230.	1.1	24
90	Redox stress unbalances the inflammatory cytokine network: role in autoinflammatory patients and healthy subjects. Journal of Leukocyte Biology, 2016, 99, 79-86.	1.5	19

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91	Interleukin-1 and interleukin-2 control granulocyte- and granulocyte-macrophage colony-stimulating factor gene expression and cell proliferation in cultured acute myeloblastic leukemia. International Journal of Cancer, 1990, 46, 902-907.	2.3	17
92	Entry of exogenous polypeptides into the nucleus of living cells: facts and speculations. Trends in Cell Biology, 1995, 5, 409-412.	3.6	15
93	Changes in gene expression during the growth arrest of HepG2 hepatoma cells induced by reducing agents or TGFÎ²1. Oncogene, 1998, 16, 2935-2943.	2.6	15
94	A novel knock-in mouse model of cryopyrin-associated periodic syndromes with development of amyloidosis: Therapeutic efficacy of proton pump inhibitors. Journal of Allergy and Clinical Immunology, 2020, 145, 368-378.e13.	1.5	14
95	The pharmacologic inhibition of the xc- antioxidant system improves the antitumor efficacy of COX inhibitors in the in vivo model of 3-MCA tumorigenesis. Carcinogenesis, 2013, 34, 620-626.	1.3	12
96	Oxidation of methionine residues in human apolipoprotein A-I generates a potent pro-inflammatory molecule. Journal of Biological Chemistry, 2019, 294, 3634-3646.	1.6	12
97	The Association of HIV-1 Tat with Nuclei Is Regulated by Ca2+ Ions and Cytosolic Factors. Journal of Biological Chemistry, 1997, 272, 11256-11260.	1.6	9
98	The therapeutic Tâ€cell response induced by tumor delivery of TNF and melphalan is dependent on early triggering of natural killer and dendritic cells. European Journal of Immunology, 2017, 47, 743-753.	1.6	9
99	Restoring microenvironmental redox and pH homeostasis inhibits neoplastic cell growth and migration: therapeutic efficacy of esomeprazole plus sulfasalazine on 3-MCA-induced sarcoma. Oncotarget, 2017, 8, 67482-67496.	0.8	9
100	Novel Pathways of Protein Secretion. , 2005, , 45-60.		8
101	Chemo-metabolic regulation of immune responses by Tregs. Nature Chemical Biology, 2009, 5, 709-710.	3.9	5
102	Therapeutic efficacy of proton transport inhibitors alone or in combination with cisplatinÂin triple negative and hormone sensitive breast cancer models. Cancer Medicine, 2021, 11, 183.	1.3	4
103	Secretion of bioactive interleukin-1Î² by dendritic cells is modulated by interaction with antigen specific T cells. Blood, 2000, 95, 3809-3815.	0.6	3
104	NK cell-derived cytokines and delivery. , 2010, , 177-188.		2
105	Tumor Vasculature Targeted TNFÎ± Therapy: Reversion of Microenvironment Anergy and Enhancement of the Anti-tumor Efficiency. Current Medicinal Chemistry, 2020, 27, 4233-4248.	1.2	2
106	Regulation of IgM biosynthesis in human chronic lymphocytic leukemia. Normal and neoplastic B cells respond differently to TPA. Leukemia Research, 1989, 13, 1105-1111.	0.4	1
107	Stress as an intercellular signal: the emergence of stress associated molecular patterns (SAMP).. Antioxidants and Redox Signaling, 0, , 110306091003087.	2.5	1
108	NLR in Human Diseases: Role and Laboratory Findings. Methods in Molecular Biology, 2016, 1417, 247-254.	0.4	0

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109	Cytokines in Autoinflammation. , 2019, , 111-122.		0