Anna Karlsson

List of Publications by Year in descending order

110 papers	6,427 citations	66343 42 h-index	71685 76 g-index
110 all docs	110 docs citations	110 times ranked	7705 citing authors

#	Article	IF	Citations
1	Respiratory burst in human neutrophils. Journal of Immunological Methods, 1999, 232, 3-14.	1.4	695
2	Galectins as inflammatory mediators. Glycoconjugate Journal, 2002, 19, 575-581.	2.7	241
3	Galectin-3 Activates the NADPH-Oxidase in Exudated but not Peripheral Blood Neutrophils. Blood, 1998, 91, 3430-3438.	1.4	185
4	Phorbol myristate acetate induces neutrophil NADPH-oxidase activity by two separate signal transduction pathways: dependent or independent of phosphatidylinositol 3-kinase. Journal of Leukocyte Biology, 2000, 67, 396-404.	3.3	185
5	The Synthetic Peptide Trp-Lys-Tyr-Met-Val-Met-NH2 Specifically Activates Neutrophils through FPRL1/Lipoxin A4 Receptors and Is an Agonist for the Orphan Monocyte-expressed Chemoattractant Receptor FPRL2. Journal of Biological Chemistry, 2001, 276, 21585-21593.	3.4	176
6	Intracellular generation of superoxide by the phagocyte NADPH oxidase: How, where, and what for?. Free Radical Biology and Medicine, 2010, 49, 1834-1845.	2.9	170
7	Affinity of galectin-8 and its carbohydrate recognition domains for ligands in solution and at the cell surface. Glycobiology, 2007, 17, 663-676.	2.5	162
8	Assembly and Activation of the Neutrophil NADPH Oxidase in Granule Membranes. Antioxidants and Redox Signaling, 2002, 4, 49-60.	5.4	160
9	Identification and characterization of SarH1, a new global regulator of virulence gene expression in Staphylococcus aureus. Molecular Microbiology, 2000, 37, 398-409.	2.5	145
10	Secretion of heparin-binding protein from human neutrophils is determined by its localization in azurophilic granules and secretory vesicles. Blood, 2002, 99, 1785-1793.	1.4	144
11	Neutrophil NET formation is regulated from the inside by myeloperoxidase-processed reactive oxygen species. Free Radical Biology and Medicine, 2015, 89, 1024-1035.	2.9	144
12	Host Defense Peptide LL-37 Selectively Reduces Proinflammatory Macrophage Responses. Journal of Immunology, 2011, 186, 5497-5505.	0.8	142
13	Ligand recognition and activation of formyl peptide receptors in neutrophils. Journal of Leukocyte Biology, 2005, 79, 247-256.	3.3	138
14	Galectin-3 contributes to neonatal hypoxicâ€“ischemic brain injury. Neurobiology of Disease, 2010, 38, 36-46.	4.4	130
15	Galectin-3 functions as an opsonin and enhances the macrophage clearance of apoptotic neutrophils. Glycobiology, 2008, 19, 16-20.	2.5	127
16	The synthetic chemoattractant Trp-Lys-Tyr-Met-Val-DMet activates neutrophils preferentially through the lipoxin A4 receptor. Blood, 2000, 95, 1810-1818.	1.4	119
17	The many isoforms of human adenylate kinases. International Journal of Biochemistry and Cell Biology, 2014, 49, 75-83.	2.8	117
18	Galectin-3 enhances monocyte-derived macrophage efferocytosis of apoptotic granulocytes in asthma. Respiratory Research, 2019, 20, 1.	3.6	104

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19	Variation in Extracellular Protease Production among Clinical Isolates of Staphylococcus aureus Due to Different Levels of Expression of the Protease Repressor sarA. Infection and Immunity, 2002, 70, 4239-4246.	2.2	100
20	Mutational Tuning of Galectin-3 Specificity and Biological Function. Journal of Biological Chemistry, 2010, 285, 35079-35091.	3.4	98
21	Activation of the Neutrophil Nicotinamide Adenine Dinucleotide Phosphate Oxidase by Galectin-1. Journal of Immunology, 2002, 168, 4034-4041.	0.8	91
22	Galectin 3 aggravates joint inflammation and destruction in antigenâ€induced arthritis. Arthritis and Rheumatism, 2011, 63, 445-454.	6.7	90
23	The Human Neutrophil Subsets Defined by the Presence or Absence of OLFM4 Both Transmigrate into Tissue In Vivo and Give Rise to Distinct NETs In Vitro. PLoS ONE, 2013, 8, e69575.	2.5	90
24	Measurement of Respiratory Burst Products, Released or Retained, During Activation of Professional Phagocytes. Methods in Molecular Biology, 2014, 1124, 321-338.	0.9	86
25	Lipopolysaccharide-Induced Gelatinase Granule Mobilization Primes Neutrophils for Activation by Galectin-3 and Formylmethionyl-Leu-Phe. Infection and Immunity, 2001, 69, 832-837.	2.2	82
26	Measurement of Respiratory Burst Products Generated by Professional Phagocytes. Methods in Molecular Biology, 2007, 412, 349-363.	0.9	82
27	Profile of blood cells and inflammatory mediators in periodic fever, aphthous stomatitis, pharyngitis and adenitis (PFAPA) syndrome. BMC Pediatrics, 2010, 10, 65.	1.7	77
28	Different Subcellular Localization of Cytochrome b and the Dormant NADPH-Oxidase in Neutrophils and Macrophages: Effect on the Production of Reactive Oxygen Species during Phagocytosis. Cellular Immunology, 1995, 161, 61-71.	3.0	73
29	Lipopolysaccharide-Induced Granule Mobilization and Priming of the Neutrophil Response to Helicobacter pylori Peptide Hp(2-20), Which Activates Formyl Peptide Receptor-Like 1. Infection and Immunity, 2002, 70, 2908-2914.	2.2	67
30	The mechanism for activation of the neutrophil NADPH-oxidase by the peptides formyl-Met-Leu-Phe and Trp-Lys-Tyr-Met-Val-Met differs from that for interleukin-8. Immunology, 2004, 112, 201-210.	4.4	66
31	Phenol-Soluble Modulin Î± Peptide Toxins from Aggressive Staphylococcus aureus Induce Rapid Formation of Neutrophil Extracellular Traps through a Reactive Oxygen Species-Independent Pathway. Frontiers in Immunology, 2017, 8, 257.	4.8	66
32	Intracellular Neutrophil Oxidants: From Laboratory Curiosity to Clinical Reality. Journal of Immunology, 2019, 202, 3127-3134.	0.8	66
33	Proinflammatory Activity of a Cecropin-Like Antibacterial Peptide from Helicobacter pylori. Antimicrobial Agents and Chemotherapy, 2001, 45, 1700-1704.	3.2	65
34	Pharmacological and genetic inhibition of NADPH oxidase does not reduce brain damage in different models of perinatal brain injury in newborn mice. Neurobiology of Disease, 2008, 31, 133-144.	4.4	62
35	Serum amyloid A mediates human neutrophil production of reactive oxygen species through a receptor independent of formyl peptide receptor like-1. Journal of Leukocyte Biology, 2008, 83, 245-253.	3.3	57
36	Changes in Activation States of Murine Polymorphonuclear Leukocytes (PMN) during Inflammation: a Comparison of Bone Marrow and Peritoneal Exudate PMN. Vaccine Journal, 2006, 13, 575-583.	3.1	55

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37	A Proinflammatory Peptide from Herpes Simplex Virus Type 2 Glycoprotein G Affects Neutrophil, Monocyte, and NK Cell Functions. Journal of Immunology, 2005, 174, 2235-2241.	0.8	53
38	NADPH-oxidase activation in murine neutrophils via formyl peptide receptors. Experimental Cell Research, 2003, 282, 70-77.	2.6	52
39	Interleukin-8-Derived Peptide Has Antibacterial Activity. Antimicrobial Agents and Chemotherapy, 2005, 49, 3889-3895.	3.2	51
40	Reactivation of Formyl Peptide Receptors Triggers the Neutrophil NADPH-oxidase but Not a Transient Rise in Intracellular Calcium. Journal of Biological Chemistry, 2003, 278, 30578-30586.	3.4	50
41	The two neutrophil members of the formylpeptide receptor family activate the NADPH-oxidase through signals that differ in sensitivity to a gelsolin derived phosphoinositide-binding peptide. BMC Cell Biology, 2004, 5, 50.	3.0	49
42	Reactivation of Desensitized Formyl Peptide Receptors by Platelet Activating Factor: A Novel Receptor Cross Talk Mechanism Regulating Neutrophil Superoxide Anion Production. PLoS ONE, 2013, 8, e60169.	2.5	49
43	Review of autoinflammatory diseases, with a special focus on periodic fever, aphthous stomatitis, pharyngitis and cervical adenitis syndrome. Acta Paediatrica, International Journal of Paediatrics, 2016, 105, 1140-1151.	1.5	48
44	Endogenous Acute Phase Serum Amyloid A Lacks Pro-Inflammatory Activity, Contrasting the Two Recombinant Variants That Activate Human Neutrophils through Different Receptors. Frontiers in Immunology, 2013, 4, 92.	4.8	47
45	Galectin-3 Activates the NADPH-Oxidase in Exudated but not Peripheral Blood Neutrophils. Blood, 1998, 91, 3430-3438.	1.4	46
46	Elevated Mitochondrial Reactive Oxygen Species and Cellular Redox Imbalance in Human NADPH-Oxidase-Deficient Phagocytes. Frontiers in Immunology, 2017, 8, 1828.	4.8	44
47	Inhibition of glutamate oxaloacetate transaminase 1 in cancer cell lines results in altered metabolism with increased dependency of glucose. BMC Cancer, 2018, 18, 559.	2.6	44
48	Lipid raft proteome of the human neutrophil azurophil granule. Proteomics, 2007, 7, 194-205.	2.2	43
49	Localization of human neutrophil interleukin-8 (CXCL-8) to organelle(s) distinct from the classical granules and secretory vesicles. Journal of Leukocyte Biology, 2006, 79, 564-573.	3.3	42
50	The proinflammatory activity of recombinant serum amyloid A is not shared by the endogenous protein in the circulation. Arthritis and Rheumatism, 2010, 62, 1660-1665.	6.7	42
51	The leukocyte chemotactic receptor FPR2, but not the closely related FPR1, is sensitive to cell-penetrating pepducins with amino acid sequences descending from the third intracellular receptor loop. Biochimica Et Biophysica Acta - Molecular Cell Research, 2013, 1833, 1914-1923.	4.1	42
52	Phagocyte interactions with Mycobacterium tuberculosis â€" Simultaneous analysis of phagocytosis, phagosome maturation and intracellular replication by imaging flow cytometry. Journal of Immunological Methods, 2015, 427, 73-84.	1.4	42
53	Microglia/Macrophage-Derived Inflammatory Mediators Galectin-3 and Quinolinic Acid are Elevated in Cerebrospinal Fluid from Newborn Infants After Birth Asphyxia. Translational Stroke Research, 2013, 4, 228-235.	4.2	41
54	Wheat Germ Agglutinin Induces NADPH-Oxidase Activity in Human Neutrophils by Interaction with Mobilizable Receptors. Infection and Immunity, 1999, 67, 3461-3468.	2.2	39

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55	The mitochondrial carrier SLC25A10 regulates cancer cell growth. Oncotarget, 2015, 6, 9271-9283.	1.8	38
56	Increased Intracellular Oxygen Radical Production in Neutrophils During Febrile Episodes of Periodic Fever, Aphthous Stomatitis, Pharyngitis, and Cervical Adenitis Syndrome. Arthritis and Rheumatism, 2013, 65, 2971-2983.	6.7	37
57	CFP-10 from Mycobacterium tuberculosis Selectively Activates Human Neutrophils through a Pertussis Toxin-Sensitive Chemotactic Receptor. Infection and Immunity, 2015, 83, 205-213.	2.2	36
58	Cytochalasin B triggers a novel pertussis toxin sensitive pathway in TNF-alpha primed neutrophils. BMC Cell Biology, 2004, 5, 21.	3.0	32
59	P2Y2 receptor signaling in neutrophils is regulated from inside by a novel cytoskeleton-dependent mechanism. Experimental Cell Research, 2015, 336, 242-252.	2.6	31
60	SufA of the Opportunistic Pathogen Finegoldia magna Modulates Actions of the Antibacterial Chemokine MIG/CXCL9, Promoting Bacterial Survival during Epithelial Inflammation. Journal of Biological Chemistry, 2009, 284, 29499-29508.	3.4	30
61	The phagocyte chemiluminescence paradox: luminol can act as an inhibitor of neutrophil NADPH-oxidase activity. Luminescence, 1999, 14, 153-160.	2.9	29
62	Galectin-3 type-C self-association on neutrophil surfaces; The carbohydrate recognition domain regulates cell function. Journal of Leukocyte Biology, 2018, 103, 341-353.	3.3	29
63	The YIN and YANG of lipoproteins in developing and preventing infectious arthritis by Staphylococcus aureus. PLoS Pathogens, 2019, 15, e1007877.	4.7	25
64	The Â-galactoside binding immunomodulatory lectin galectin-3 reverses the desensitized state induced in neutrophils by the chemotactic peptide f-Met-Leu-Phe: role of reactive oxygen species generated by the NADPH-oxidase and inactivation of the agonist. Glycobiology, 2008, 18, 905-912.	2.5	24
65	Desensitization of the fMLP-induced NADPH-oxidase response in human neutrophils is lacking in okadaic acid-treated cells. Journal of Leukocyte Biology, 1997, 61, 753-758.	3.3	23
66	Activation of human neutrophils by mycobacterial phenolic glycolipids. Clinical and Experimental Immunology, 1999, 118, 253-260.	2.6	23
67	Synaptotagmin II could confer Ca2+ sensitivity to phagocytosis in human neutrophils. Biochimica Et Biophysica Acta - Molecular Cell Research, 2002, 1590, 159-166.	4.1	23
68	Newcastle disease virus neuraminidase primes neutrophils for stimulation by galectin-3 and formyl-Met-Leu-Phe. Experimental Cell Research, 2004, 298, 74-82.	2.6	23
69	Galectin-3 Is a Target for Proteases Involved in the Virulence of Staphylococcus aureus. Infection and Immunity, 2017, 85, .	2.2	23
70	Age-related metabolic changes limit efficacy of deoxynucleoside-based therapy in thymidine kinase 2-deficient mice. EBioMedicine, 2019, 46, 342-355.	6.1	23
71	Inhibition of phospholipase A2 abrogates intracellular processing of NADPH-oxidase derived reactive oxygen species in human neutrophils. Experimental Cell Research, 2013, 319, 761-774.	2.6	22
72	Glycan analysis of human neutrophil granules implicates a maturation-dependent glycosylation machinery. Journal of Biological Chemistry, 2020, 295, 12648-12660.	3.4	22

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73	Divergent Effects on Phagocytosis by Macrophage-Derived Oxygen Radicals. Journal of Innate Immunity, 2009, 1, 592-598.	3.8	21
74	Cord blood neutrophils display a galectin-3 responsive phenotype accentuated by vaginal delivery. BMC Pediatrics, 2013, 13, 128.	1.7	21
75	Priming of human neutrophils by mycobacterial lipoarabinomannans: role of granule mobilisation. Microbes and Infection, 2001, 3, 1101-1109.	1.9	20
76	Uric acid, a nucleic acid degradation product, down-regulates dsRNA-triggered arthritis. Journal of Leukocyte Biology, 2006, 79, 482-488.	3.3	20
77	Regulation of Neutrophil Apoptosis Differs after in vivo Transmigration to Skin Chambers and Synovial Fluid: A Role for Inflammasome-Dependent Interleukin-1Î² Release. Journal of Innate Immunity, 2013, 5, 377-388.	3.8	20
78	Changes in the ratio between FPR and FPRL1 triggered superoxide production in human neutrophilsâ€"A tool in analysing receptor specific events. Journal of Immunological Methods, 2008, 331, 50-58.	1.4	19
79	A simple skin blister technique for the study of in vivo transmigration of human leukocytes. Journal of Immunological Methods, 2013, 393, 8-17.	1.4	19
80	Toward an Inclusive, Congruent, and Precise Definition of Autoinflammatory Diseases. Frontiers in Immunology, 2017, 8, 497.	4.8	19
81	Quantification of heterotypic granule fusion in human neutrophils by imaging flow cytometry. Data in Brief, 2016, 6, 386-393.	1.0	17
82	The role of Staphylococcus aureus lipoproteins in hematogenous septic arthritis. Scientific Reports, 2020, 10, 7936.	3.3	17
83	The Lipidated Peptidomimetic Lau-((S)-Aoc)-(Lys-Î²Nphe)6-NH2 Is a Novel Formyl Peptide Receptor 2 Agonist That Activates Both Human and Mouse Neutrophil NADPH Oxidase. Journal of Biological Chemistry, 2016, 291, 19888-19899.	3.4	16
84	Different glycosphingolipid composition in human neutrophil subcellular compartments. Glycoconjugate Journal, 2001, 18, 231-243.	2.7	15
85	Neutrophil recruitment to inflamed joints can occur without cellular priming. Journal of Leukocyte Biology, 2019, 105, 1123-1130.	3.3	15
86	Identification of the Lysosomal Membrane Glycoprotein Lamp-1 as a Receptor for Type-1-Fimbriated (Mannose-Specific)Escherichia coli. Biochemical and Biophysical Research Communications, 1996, 219, 168-172.	2.1	14
87	Evaluation of deformable image registration accuracy for CT images of the thorax region. Physica Medica, 2019, 57, 191-199.	0.7	14
88	Dietary Polyunsaturated Fatty Acids Promote Neutrophil Accumulation in the Spleen by Altering Chemotaxis and Delaying Cell Death. Infection and Immunity, 2019, 87, .	2.2	14
89	Staphylococcus aureus lipoproteins promote abscess formation in mice, shielding bacteria from immune killing. Communications Biology, 2021, 4, 432.	4.4	14
90	Severe mtDNA depletion and dependency on catabolic lipid metabolism in DGUOK knockout mice. Human Molecular Genetics, 2019, 28, 2874-2884.	2.9	13

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91	Ionomycin-Induced Neutrophil NADPH Oxidase Activity Is Selectively Inhibited by the Serine Protease Inhibitor Diisopropyl Fluorophosphate. Antioxidants and Redox Signaling, 2002, 4, 17-25.	5.4	12
92	The Cellular Thioredoxin-1/Thioredoxin Reductase-1 Driven Oxidoreduction Represents a Chemotherapeutic Target for HIV-1 Entry Inhibition. PLoS ONE, 2016, 11, e0147773.	2.5	12
93	Signal Regulatory Protein Alpha Is Present in Several Neutrophil Granule Populations and Is Rapidly Mobilized to the Cell Surface to Negatively Fine-Tune Neutrophil Accumulation in Inflammation. Journal of Innate Immunity, 2014, 6, 553-560.	3.8	11
94	Metformin downregulates the mitochondrial carrier SLC25A10 in a glucose dependent manner. Biochemical Pharmacology, 2018, 156, 444-450.	4.4	11
95	Collection of In Vivo Transmigrated Neutrophils from Human Skin. Methods in Molecular Biology, 2014, 1124, 39-52.	0.9	10
96	Immunostimulatory DNA induces degranulation and NADPH-oxidase activation in human neutrophils while concomitantly inhibiting chemotaxis and phagocytosis. European Journal of Immunology, 2002, 32, 2847-2856.	2.9	9
97	Interplay Between Thiamine and p53/p21 Axes Affects Antiproliferative Action of Cisplatin in Lung Adenocarcinoma Cells by Changing Metabolism of 2-Oxoglutarate/Glutamate. Frontiers in Genetics, 2021, 12, 658446.	2.3	9
98	A Monocyte-Specific Peptide from Herpes Simplex Virus Type 2 Glycoprotein G Activates the NADPH-Oxidase but Not Chemotaxis through a G-Protein-Coupled Receptor Distinct from the Members of the Formyl Peptide Receptor Family. Journal of Immunology, 2007, 179, 6080-6087.	0.8	8
99	Activation of Mitochondrial 2-Oxoglutarate Dehydrogenase by Cocarboxylase in Human Lung Adenocarcinoma Cells A549 Is p53/p21-Dependent and Impairs Cellular Redox State, Mimicking the Cisplatin Action. International Journal of Molecular Sciences, 2020, 21, 3759.	4.1	8
100	Neutrophils from patients with SAPHO syndrome show no signs of aberrant NADPH oxidase-dependent production of intracellular reactive oxygen species. Rheumatology, 2016, 55, 1489-1498.	1.9	7
101	Decrease of core 2 O-glycans on synovial lubricin in osteoarthritis reduces galectin-3 mediated crosslinking. Journal of Biological Chemistry, 2020, 295, 16023-16036.	3.4	7
102	Cultured Rat and Purified Human Pneumocystis carinii Stimulate Intra-but not Extracellular Free Radical Production in Human Neutrophils. Journal of Eukaryotic Microbiology, 1998, 45, 544-547.	1.7	6
103	Ability of Monocyte-Derived Dendritic Cells To Secrete Oxygen Radicals in Response to Formyl Peptide Receptor Family Agonists Compared to That of Myeloid and Plasmacytoid Dendritic Cells. Vaccine Journal, 2007, 14, 328-330.	3.1	6
104	Immunostimulatory oligodeoxynucleotides induce dolphin neutrophil NADPH-oxidase activation in a CpG-independent but phosphorothioate backbone-dependent manner. Developmental and Comparative Immunology, 2005, 29, 583-588.	2.3	5
105	The two neutrophil plasma membrane markers alkaline phosphatase and HLA class I antigen localize differently in granule-deficient cytoplasts. An ideal plasma membrane marker in human neutrophils is still lacking. Journal of Immunological Methods, 2007, 325, 88-95.	1.4	5
106	Coordinated pyruvate kinase activity is crucial for metabolic adaptation and cell survival during mitochondrial dysfunction. Human Molecular Genetics, 2021, 30, 2012-2026.	2.9	5
107	Lack of correlation between NADPH-oxidase priming and elevated alkaline phosphatase activity in cord blood neutrophils. Pediatric Allergy and Immunology, 1995, 6, 161-164.	2.6	4
108	Secretion of type-1-fimbriae binding proteins from human neutrophil granulocytes. Inflammation, 1996, 20, 389-400.	3.8	4

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109	Systemic Galectin-3 in Smokers with Chronic Obstructive Pulmonary Disease and Chronic Bronchitis: The Impact of Exacerbations. International Journal of COPD, 2021, Volume 16, 367-377.	2.3	4
110	The phagocyte chemiluminescence paradox: luminol can act as an inhibitor of neutrophil NADPHâ€oxidase activity. Luminescence, 1999, 14, 153-160.	2.9	2