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	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
2	Staphylococcus aureus lipoproteins promote abscess formation in mice, shielding bacteria from immune killing. Communications Biology, 2021, 4, 432.	4.4	14
3	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
4	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
5	Glycan analysis of human neutrophil granules implicates a maturation-dependent glycosylation machinery. Journal of Biological Chemistry, 2020, 295, 12648-12660.	3.4	22
6	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
7	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
8	The role of Staphylococcus aureus lipoproteins in hematogenous septic arthritis. Scientific Reports, 2020, 10, 7936.	3.3	17
9	Age-related metabolic changes limit efficacy of deoxynucleoside-based therapy in thymidine kinase 2-deficient mice. EBioMedicine, 2019, 46, 342-355.	6.1	23
10	Evaluation of deformable image registration accuracy for CT images of the thorax region. Physica Medica, 2019, 57, 191-199.	0.7	14
11	The YIN and YANG of lipoproteins in developing and preventing infectious arthritis by Staphylococcus aureus. PLoS Pathogens, 2019, 15, e1007877.	4.7	25
12	Severe mtDNA depletion and dependency on catabolic lipid metabolism in DGUOK knockout mice. Human Molecular Genetics, 2019, 28, 2874-2884.	2.9	13
13	Intracellular Neutrophil Oxidants: From Laboratory Curiosity to Clinical Reality. Journal of Immunology, 2019, 202, 3127-3134.	0.8	66
14	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
15	Neutrophil recruitment to inflamed joints can occur without cellular priming. Journal of Leukocyte Biology, 2019, 105, 1123-1130.	3.3	15
16	Galectin-3 enhances monocyte-derived macrophage efferocytosis of apoptotic granulocytes in asthma. Respiratory Research, 2019, 20, 1.	3.6	104
17	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
18	Metformin downregulates the mitochondrial carrier SLC25A10 in a glucose dependent manner. Biochemical Pharmacology, 2018, 156, 444-450.	4.4	11

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19	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
20	Galectin-3 Is a Target for Proteases Involved in the Virulence of Staphylococcus aureus. Infection and Immunity, 2017, 85, .	2.2	23
21	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
22	Toward an Inclusive, Congruent, and Precise Definition of Autoinflammatory Diseases. Frontiers in Immunology, 2017, 8, 497.	4.8	19
23	Elevated Mitochondrial Reactive Oxygen Species and Cellular Redox Imbalance in Human NADPH-Oxidase-Deficient Phagocytes. Frontiers in Immunology, 2017, 8, 1828.	4.8	44
24	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
25	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
26	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
27	Quantification of heterotypic granule fusion in human neutrophils by imaging flow cytometry. Data in Brief, 2016, 6, 386-393.	1.0	17
28	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
29	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
30	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
31	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
32	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
33	The mitochondrial carrier SLC25A10 regulates cancer cell growth. Oncotarget, 2015, 6, 9271-9283.	1.8	38
34	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
35	The many isoforms of human adenylate kinases. International Journal of Biochemistry and Cell Biology, 2014, 49, 75-83.	2.8	117
36	Measurement of Respiratory Burst Products, Released or Retained, During Activation of Professional Phagocytes. Methods in Molecular Biology, 2014, 1124, 321-338.	0.9	86

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37	Collection of In Vivo Transmigrated Neutrophils from Human Skin. Methods in Molecular Biology, 2014, 1124, 39-52.	0.9	10
38	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
39	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
40	Cord blood neutrophils display a galectin-3 responsive phenotype accentuated by vaginal delivery. BMC Pediatrics, 2013, 13, 128.	1.7	21
41	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
42	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
43	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
44	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
45	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
46	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
47	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
48	Host Defense Peptide LL-37 Selectively Reduces Proinflammatory Macrophage Responses. Journal of Immunology, 2011, 186, 5497-5505.	0.8	142
49	Galectin 3 aggravates joint inflammation and destruction in antigenâ€induced arthritis. Arthritis and Rheumatism, 2011, 63, 445-454.	6.7	90
50	Galectin-3 contributes to neonatal hypoxicâ€“ischemic brain injury. Neurobiology of Disease, 2010, 38, 36-46.	4.4	130
51	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
52	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
53	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
54	Mutational Tuning of Galectin-3 Specificity and Biological Function. Journal of Biological Chemistry, 2010, 285, 35079-35091.	3.4	98

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55	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
56	Divergent Effects on Phagocytosis by Macrophage-Derived Oxygen Radicals. Journal of Innate Immunity, 2009, 1, 592-598.	3.8	21
57	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
58	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
59	Galectin-3 functions as an opsonin and enhances the macrophage clearance of apoptotic neutrophils. Glycobiology, 2008, 19, 16-20.	2.5	127
60	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
61	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
62	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
63	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
64	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
65	Measurement of Respiratory Burst Products Generated by Professional Phagocytes. Methods in Molecular Biology, 2007, 412, 349-363.	0.9	82
66	Lipid raft proteome of the human neutrophil azurophil granule. Proteomics, 2007, 7, 194-205.	2.2	43
67	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
68	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
69	Uric acid, a nucleic acid degradation product, down-regulates dsRNA-triggered arthritis. Journal of Leukocyte Biology, 2006, 79, 482-488.	3.3	20
70	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
71	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
72	Interleukin-8-Derived Peptide Has Antibacterial Activity. Antimicrobial Agents and Chemotherapy, 2005, 49, 3889-3895.	3.2	51

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73	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
74	Ligand recognition and activation of formyl peptide receptors in neutrophils. Journal of Leukocyte Biology, 2005, 79, 247-256.	3.3	138
75	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
76	Cytochalasin B triggers a novel pertussis toxin sensitive pathway in TNF-alpha primed neutrophils. BMC Cell Biology, 2004, 5, 21.	3.0	32
77	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
78	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
79	NADPH-oxidase activation in murine neutrophils via formyl peptide receptors. Experimental Cell Research, 2003, 282, 70-77.	2.6	52
80	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
81	Activation of the Neutrophil Nicotinamide Adenine Dinucleotide Phosphate Oxidase by Galectin-1. Journal of Immunology, 2002, 168, 4034-4041.	0.8	91
82	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
83	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
84	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
85	Assembly and Activation of the Neutrophil NADPH Oxidase in Granule Membranes. Antioxidants and Redox Signaling, 2002, 4, 49-60.	5.4	160
86	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
87	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
88	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
89	Galectins as inflammatory mediators. Glycoconjugate Journal, 2002, 19, 575-581.	2.7	241
90	Proinflammatory Activity of a Cecropin-Like Antibacterial Peptide from Helicobacter pylori. Antimicrobial Agents and Chemotherapy, 2001, 45, 1700-1704.	3.2	65

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91	Priming of human neutrophils by mycobacterial lipoarabinomannans: role of granule mobilisation. Microbes and Infection, 2001, 3, 1101-1109.	1.9	20
92	Different glycosphingolipid composition in human neutrophil subcellular compartments. Glycoconjugate Journal, 2001, 18, 231-243.	2.7	15
93	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
94	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
95	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
96	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
97	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
98	Activation of human neutrophils by mycobacterial phenolic glycolipids. Clinical and Experimental Immunology, 1999, 118, 253-260.	2.6	23
99	Respiratory burst in human neutrophils. Journal of Immunological Methods, 1999, 232, 3-14.	1.4	695
100	The phagocyte chemiluminescence paradox: luminol can act as an inhibitor of neutrophil NADPH-oxidase activity. Luminescence, 1999, 14, 153-160.	2.9	29
101	The phagocyte chemiluminescence paradox: luminol can act as an inhibitor of neutrophil NADPHâ€oxidase activity. Luminescence, 1999, 14, 153-160.	2.9	2
102	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
103	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
104	Galectin-3 Activates the NADPH-Oxidase in Exudated but not Peripheral Blood Neutrophils. Blood, 1998, 91, 3430-3438.	1.4	185
105	Galectin-3 Activates the NADPH-Oxidase in Exudated but not Peripheral Blood Neutrophils. Blood, 1998, 91, 3430-3438.	1.4	46
106	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
107	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
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	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
110	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