

Johan Frostegard

List of Publications by Citations

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112
papers

6,439
citations

41
h-index

79
g-index

121
ext. papers

7,159
ext. citations

5.6
avg, IF

5.97
L-index

#	Paper	IF	Citations
112	Cytokine expression in advanced human atherosclerotic plaques: dominance of pro-inflammatory (Th1) and macrophage-stimulating cytokines. <i>Atherosclerosis</i> , 1999 , 145, 33-43	3.1	770
111	Immunity, atherosclerosis and cardiovascular disease. <i>BMC Medicine</i> , 2013 , 11, 117	11.4	423
110	Risk factors for cardiovascular disease in systemic lupus erythematosus. <i>Circulation</i> , 2001 , 104, 1887-93	16.7	397
109	Oxidized low density lipoprotein induces differentiation and adhesion of human monocytes and the monocytic cell line U937. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 1990 , 87, 904-8	11.5	285
108	Circulating heat shock protein 60 is associated with early cardiovascular disease. <i>Hypertension</i> , 2000 , 36, 303-7	8.5	220
107	Induction of T-cell activation by oxidized low density lipoprotein. <i>Arteriosclerosis and Thrombosis: A Journal of Vascular Biology</i> , 1992 , 12, 461-7		196
106	Serum heat shock protein 70 levels predict the development of atherosclerosis in subjects with established hypertension. <i>Hypertension</i> , 2003 , 42, 235-8	8.5	194
105	Lipid peroxidation is enhanced in patients with systemic lupus erythematosus and is associated with arterial and renal disease manifestations. <i>Arthritis and Rheumatism</i> , 2005 , 52, 192-200		180
104	Atherosclerosis in patients with autoimmune disorders. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 1776-85	9.4	172
103	Transancestral mapping and genetic load in systemic lupus erythematosus. <i>Nature Communications</i> , 2017 , 8, 16021	17.4	171
102	Risk factors for cardiovascular disease in patients with periodontitis. <i>European Heart Journal</i> , 2003 , 24, 2099-107	9.5	168
101	Biologically modified LDL increases the adhesive properties of endothelial cells. <i>Atherosclerosis</i> , 1991 , 90, 119-26	3.1	150
100	Antibodies of IgM subclass to phosphorylcholine and oxidized LDL are protective factors for atherosclerosis in patients with hypertension. <i>Atherosclerosis</i> , 2006 , 188, 160-6	3.1	145
99	Lysophosphatidylcholine (LPC) induces proinflammatory cytokines by a platelet-activating factor (PAF) receptor-dependent mechanism. <i>Clinical and Experimental Immunology</i> , 1999 , 116, 326-31	6.2	127
98	Elevated triglycerides and low levels of high-density lipoprotein as markers of disease activity in association with up-regulation of the tumor necrosis factor alpha/tumor necrosis factor receptor system in systemic lupus erythematosus. <i>Arthritis and Rheumatism</i> , 2003 , 48, 2533-40		116
97	TNF-alpha: a link between hypertriglyceridaemia and inflammation in SLE patients with cardiovascular disease. <i>Lupus</i> , 2003 , 12, 454-61	2.6	113
96	Expression of phospholipase A2 isoforms in human normal and atherosclerotic arterial wall. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997 , 17, 2257-63	9.4	102

95	Autoantibodies to OxLDL are decreased in individuals with borderline hypertension. <i>Hypertension</i> , 1999 , 33, 53-9	8.5	99
94	SLE, atherosclerosis and cardiovascular disease. <i>Journal of Internal Medicine</i> , 2005 , 257, 485-95	10.8	95
93	Natural antibodies against phosphorylcholine as potential protective factors in SLE. <i>Rheumatology</i> , 2008 , 47, 1144-50	3.9	93
92	Low levels of IgM antibodies to phosphorylcholine predict cardiovascular disease in 60-year old men: effects on uptake of oxidized LDL in macrophages as a potential mechanism. <i>Journal of Autoimmunity</i> , 2010 , 34, 73-9	15.5	84
91	Increased prevalence of vulnerable atherosclerotic plaques and low levels of natural IgM antibodies against phosphorylcholine in patients with systemic lupus erythematosus. <i>Arthritis Research and Therapy</i> , 2010 , 12, R214	5.7	84
90	Induction of heat shock protein in monocytic cells by oxidized low density lipoprotein. <i>Atherosclerosis</i> , 1996 , 121, 93-103	3.1	84
89	Platelet-activating factor and oxidized LDL induce immune activation by a common mechanism. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1997 , 17, 963-8	9.4	79
88	Effects of low-dose prednisolone on endothelial function, atherosclerosis, and traditional risk factors for atherosclerosis in patients with rheumatoid arthritis—a randomized study. <i>Journal of Rheumatology</i> , 2007 , 34, 1810-6	4.1	79
87	Autoimmunity, oxidized LDL and cardiovascular disease. <i>Autoimmunity Reviews</i> , 2002 , 1, 233-7	13.6	78
86	Decreased binding of annexin v to endothelial cells: a potential mechanism in atherothrombosis of patients with systemic lupus erythematosus. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2005 , 25, 198-203	9.4	74
85	Low levels of IgM antibodies against phosphorylcholine-A potential risk marker for ischemic stroke in men. <i>Atherosclerosis</i> , 2009 , 203, 528-32	3.1	69
84	Low level natural antibodies against phosphorylcholine: a novel risk marker and potential mechanism in atherosclerosis and cardiovascular disease. <i>Clinical Immunology</i> , 2010 , 134, 47-54	9	68
83	Gluten-free vegan diet induces decreased LDL and oxidized LDL levels and raised atheroprotective natural antibodies against phosphorylcholine in patients with rheumatoid arthritis: a randomized study. <i>Arthritis Research and Therapy</i> , 2008 , 10, R34	5.7	63
82	Annexin A5 therapy attenuates vascular inflammation and remodeling and improves endothelial function in mice. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2011 , 31, 95-101	9.4	60
81	Association of serum antibodies to heat-shock protein 65 with borderline hypertension. <i>Hypertension</i> , 1997 , 29, 40-4	8.5	60
80	Low levels of antibodies against phosphorylcholine predict development of stroke in a population-based study from northern Sweden. <i>Stroke</i> , 2010 , 41, 607-12	6.7	53
79	Low levels of IgM antibodies against phosphorylcholine predict development of acute myocardial infarction in a population-based cohort from northern Sweden. <i>European Journal of Cardiovascular Prevention and Rehabilitation</i> , 2009 , 16, 382-6		52
78	Oxidized LDL induces enhanced antibody formation and MHC class II-dependent IFN-gamma production in lymphocytes from healthy individuals. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 1995 , 15, 1577-83	9.4	52

77	Oxidized Low-Density Lipoprotein (OxLDL)-Treated Dendritic Cells Promote Activation of T Cells in Human Atherosclerotic Plaque and Blood, Which Is Repressed by Statins: microRNA let-7c Is Integral to the Effect. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	48
76	Circulating oxidized low-density lipoprotein is increased in hypertension. <i>Clinical Science</i> , 2003 , 105, 615-69		48
75	IgM antibodies against malondialdehyde and phosphorylcholine are together strong protection markers for atherosclerosis in systemic lupus erythematosus: Regulation and underlying mechanisms. <i>Clinical Immunology</i> , 2016 , 166-167, 27-37	9	48
74	Natural antibodies against phosphorylcholine in cardiovascular disease. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1173, 292-300	6.5	47
73	Geographical differences in autoantibodies and anti-infectious agents antibodies among healthy adults. <i>Clinical Reviews in Allergy and Immunology</i> , 2012 , 42, 154-63	12.3	45
72	Antibodies to endothelial cells in borderline hypertension. <i>Circulation</i> , 1998 , 98, 1092-8	16.7	44
71	Induction of dendritic cell-mediated T-cell activation by modified but not native low-density lipoprotein in humans and inhibition by annexin a5: involvement of heat shock proteins. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2015 , 35, 197-205	9.4	39
70	Atheroprotective natural anti-phosphorylcholine antibodies of IgM subclass are decreased in Swedish controls as compared to non-westernized individuals from New Guinea. <i>Nutrition and Metabolism</i> , 2007 , 4, 7	4.6	39
69	Systemic lupus erythematosus and cardiovascular disease. <i>Lupus</i> , 2008 , 17, 364-7	2.6	38
68	PCSK9 plays a novel immunological role in oxidized LDL-induced dendritic cell maturation and activation of T cells from human blood and atherosclerotic plaque. <i>Journal of Internal Medicine</i> , 2018 , 284, 193	10.8	34
67	IgM-phosphorylcholine autoantibodies and outcome in acute coronary syndromes. <i>International Journal of Cardiology</i> , 2013 , 167, 464-9	3.2	34
66	Oxidized but not native cardiolipin has pro-inflammatory effects, which are inhibited by Annexin A5. <i>Atherosclerosis</i> , 2014 , 235, 592-8	3.1	33
65	IgM phosphorylcholine antibodies inhibit cell death and constitute a strong protection marker for atherosclerosis development, particularly in combination with other auto-antibodies against modified LDL. <i>Results in Immunology</i> , 2012 , 2, 13-8		31
64	Naturally occurring human phosphorylcholine antibodies are predominantly products of affinity-matured B cells in the adult. <i>Journal of Immunology</i> , 2014 , 192, 4551-9	5.3	30
63	Immune mechanisms in atherosclerosis, especially in diabetes type 2. <i>Frontiers in Endocrinology</i> , 2013 , 4, 162	5.7	30
62	Annexin A5 in cardiovascular disease and systemic lupus erythematosus. <i>Immunobiology</i> , 2005 , 210, 761-34		30
61	Integrative Analysis Reveals a Molecular Stratification of Systemic Autoimmune Diseases. <i>Arthritis and Rheumatology</i> , 2021 , 73, 1073-1085	9.5	27
60	Low density lipoprotein-induced growth of U937 cells: a novel method to determine the receptor binding of low density lipoprotein. <i>Journal of Lipid Research</i> , 1990 , 31, 37-44	6.3	25

59	Low levels of IgM antibodies against phosphorylcholine-A increase mortality risk in patients undergoing haemodialysis. <i>Nephrology Dialysis Transplantation</i> , 2009 , 24, 3454-60	4.3	24
58	IgM antibodies against phosphorylcholine promote polarization of T regulatory cells from patients with atherosclerotic plaques, systemic lupus erythematosus and healthy donors. <i>Atherosclerosis</i> , 2018 , 268, 36-48	3.1	24
57	Low levels of IgM antibodies to oxidized cardiolipin increase and high levels decrease risk of cardiovascular disease among 60-year olds: a prospective study. <i>BMC Cardiovascular Disorders</i> , 2013 , 13, 1	2.3	23
56	Oxidised LDL modulates immune-activation by an IL-12 dependent mechanism. <i>Atherosclerosis</i> , 2003 , 169, 77-85	3.1	23
55	Bone mineral density and carotid atherosclerosis in systemic lupus erythematosus: a controlled cross-sectional study. <i>Arthritis Research and Therapy</i> , 2015 , 17, 84	5.7	21
54	Longitudinal levels of apolipoproteins and antibodies against phosphorylcholine are independently associated with carotid artery atherosclerosis 5 years after rheumatoid arthritis onset--a prospective cohort study. <i>Rheumatology</i> , 2011 , 50, 1785-93	3.9	21
53	PXK locus in systemic lupus erythematosus: fine mapping and functional analysis reveals novel susceptibility gene ABHD6. <i>Annals of the Rheumatic Diseases</i> , 2015 , 74, e14	2.4	20
52	Low levels of IgM antibodies against phosphorylcholine are associated with fast carotid intima media thickness progression and cardiovascular risk in men. <i>Atherosclerosis</i> , 2014 , 236, 394-9	3.1	19
51	Induction of Dendritic Cell-Mediated Activation of T Cells From Atherosclerotic Plaques by Human Heat Shock Protein 60. <i>Journal of the American Heart Association</i> , 2017 , 6,	6	19
50	Antitreponemal antibodies leading to autoantibody production and protection from atherosclerosis in Kitavans from Papua New Guinea. <i>Annals of the New York Academy of Sciences</i> , 2009 , 1173, 675-82	6.5	19
49	Annexin A5 inhibits atherogenic and pro-inflammatory effects of lysophosphatidylcholine. <i>Prostaglandins and Other Lipid Mediators</i> , 2013 , 106, 72-8	3.7	17
48	Induction of early atherosclerosis in CBA/J mice by combination of <i>Trypanosoma cruzi</i> infection and a high cholesterol diet. <i>Atherosclerosis</i> , 2000 , 153, 273-82	3.1	17
47	Human IgM Antibodies to Malondialdehyde Conjugated With Albumin Are Negatively Associated With Cardiovascular Disease Among 60-Year-Olds. <i>Journal of the American Heart Association</i> , 2016 , 5,	6	14
46	Low levels of antibodies against oxidized but not nonoxidized cardiolipin and phosphatidylserine are associated with atherosclerotic plaques in systemic lupus erythematosus. <i>Journal of Rheumatology</i> , 2013 , 40, 1856-64	4.1	13
45	Genetic and environmental regulation of inflammatory CVD biomarkers Lp-PLA2 and IgM anti-PC. <i>Atherosclerosis</i> , 2011 , 218, 117-22	3.1	13
44	Rheumatic diseases: insights into inflammation and atherosclerosis. <i>Arteriosclerosis, Thrombosis, and Vascular Biology</i> , 2010 , 30, 892-3	9.4	13
43	Effects of anti-cardiolipin antibodies and IVIg on annexin A5 binding to endothelial cells: implications for cardiovascular disease. <i>Scandinavian Journal of Rheumatology</i> , 2010 , 39, 77-83	1.9	13
42	Effect of biological therapy on levels of atheroprotective antibodies against phosphorylcholine and apolipoproteins in rheumatoid arthritis - a one year study. <i>Clinical and Experimental Rheumatology</i> , 2011 , 29, 942-50	2.2	13

41	Coenzyme Q10 and oxidative stress, the association with peripheral sensory neuropathy and cardiovascular disease in type 2 diabetes mellitus. <i>Journal of Diabetes and Its Complications</i> , 2015 , 29, 1152-8	3.2	11
40	Low levels of antibodies against phosphorylcholine in Alzheimer's disease. <i>Journal of Alzheimer's Disease</i> , 2010 , 21, 577-84	4.3	11
39	Variation in pain related to systemic lupus erythematosus (SLE): a 7-year follow-up study. <i>Clinical Rheumatology</i> , 2018 , 37, 1825-1834	3.9	10
38	Antibodies against Phosphorylcholine among New Guineans Compared to Swedes: An Aspect of the Hygiene/Missing Old Friends Hypothesis. <i>Immunological Investigations</i> , 2017 , 46, 59-69	2.9	10
37	Prediction and management of cardiovascular outcomes in systemic lupus erythematosus. <i>Expert Review of Clinical Immunology</i> , 2015 , 11, 247-53	5.1	10
36	Proprotein convertase subtilisin kexin 9 is associated with disease activity and is implicated in immune activation in systemic lupus erythematosus. <i>Lupus</i> , 2020 , 29, 825-835	2.6	9
35	Cardiovascular co-morbidity in patients with rheumatic diseases. <i>Arthritis Research and Therapy</i> , 2011 , 13, 225	5.7	9
34	Similar progression of carotid intima-media thickness in 7-year surveillance of patients with mild SLE and controls, but this progression is still promoted by dyslipidaemia, lower HDL levels, hypertension, history of lupus nephritis and a higher prednisolone usage in patients. <i>Lupus Science and Medicine</i> , 2020 , 7, e000362	4.6	8
33	Dietary micronutrient intake and atherosclerosis in systemic lupus erythematosus. <i>Lupus</i> , 2016 , 25, 1602-1609	2.1	7
32	Antibodies against native and oxidized cardiolipin and phosphatidylserine and phosphorylcholine in atherosclerosis development. <i>PLoS ONE</i> , 2014 , 9, e111764	3.7	7
31	Phenotypic features of vascular calcification in chronic kidney disease. <i>Journal of Internal Medicine</i> , 2020 , 287, 422-434	10.8	6
30	Identification of IgG1 isotype phosphorylcholine antibodies for the treatment of inflammatory cardiovascular diseases. <i>Journal of Internal Medicine</i> , 2021 , 290, 141-156	10.8	6
29	Low levels of PCSK9 are associated with remission in patients with rheumatoid arthritis treated with anti-TNF- α potential underlying mechanisms. <i>Arthritis Research and Therapy</i> , 2021 , 23, 32	5.7	6
28	Malondialdehyde Conjugated With Albumin Induces Pro-Inflammatory Activation of T Cells Isolated From Human Atherosclerotic Plaques Both Directly and Via Dendritic Cell-Mediated Mechanism. <i>JACC Basic To Translational Science</i> , 2019 , 4, 480-494	8.7	5
27	The association between diet and glucocorticoid treatment in patients with SLE. <i>Lupus Science and Medicine</i> , 2016 , 3, e000135	4.6	5
26	Autoantibody profiling reveals four protein candidate autoantigens associated with systemic lupus erythematosus. <i>Lupus</i> , 2018 , 27, 1670-1678	2.6	5
25	An elevated polyclonal free light chain level reflects a strong interferon signature in patients with systemic autoimmune diseases. <i>Journal of Translational Autoimmunity</i> , 2021 , 4, 100090	4.1	5
24	Patients with SLE have higher risk of cardiovascular events and mortality in comparison with controls with the same levels of traditional risk factors and intima-media measures, which is related to accumulated disease damage and antiphospholipid syndrome: a case-control study over 10 years. <i>Lupus Science and Medicine</i> , 2021 , 8,	4.6	5

23	Different subclasses and isotypes of antibodies against phosphorylcholine in haemodialysis patients: association with mortality. <i>Clinical and Experimental Immunology</i> , 2020 , 201, 94-104	6.2	4
22	Immunoglobulin (Ig)M antibodies against oxidized cardiolipin but not native cardiolipin are novel biomarkers in haemodialysis patients, associated negatively with mortality. <i>Clinical and Experimental Immunology</i> , 2013 , 174, 441-8	6.2	4
21	Heat Shock Protein Release and Naturally Occurring Exogenous Heat Shock Proteins 2005 , 195-219		4
20	Antiphospholipid autoantibody detection is important in all patients with systemic autoimmune diseases. <i>Journal of Autoimmunity</i> , 2020 , 115, 102524	15.5	4
19	Immunoglobulin G1 Antibodies Against Phosphorylcholine Are Associated With Protection in Systemic Lupus Erythematosus and Atherosclerosis: Potential Underlying Mechanisms. <i>ACR Open Rheumatology</i> , 2020 , 2, 344-356	3.5	3
18	Antibodies against Malondialdehyde in Haemodialysis Patients and Its Association with Clinical Outcomes: Differences between Subclasses and Isotypes. <i>Journal of Clinical Medicine</i> , 2020 , 9,	5.1	3
17	IgM antibodies to oxidized phosphatidylserine as protection markers in cardiovascular disease among 60-year olds. <i>PLoS ONE</i> , 2017 , 12, e0171195	3.7	3
16	A genome-wide association study of IgM antibody against phosphorylcholine: shared genetics and phenotypic relationship to chronic lymphocytic leukemia. <i>Human Molecular Genetics</i> , 2018 , 27, 1809-1818	5.6	3
15	IgM-antibodies against phosphorylcholine in mothers and normal or low birth weight term newborn infants. <i>PLoS ONE</i> , 2014 , 9, e106584	3.7	3
14	Antibodies against Phosphorylcholine and Malondialdehyde during the First Two Years of Life. <i>Journal of Immunology</i> , 2020 , 205, 2109-2116	5.3	3
13	Potential natural immunization against atherosclerosis in hibernating bears. <i>Scientific Reports</i> , 2021 , 11, 12120	4.9	3
12	Association between dietary and metabolic factors and IgM antibodies to phosphorylcholine and malondialdehyde in patients with systemic lupus erythematosus and population-based matched controls. <i>Clinical and Experimental Rheumatology</i> , 2018 , 36, 428-433	2.2	3
11	IgM antibodies against malondialdehyde and phosphorylcholine in different systemic rheumatic diseases. <i>Scientific Reports</i> , 2020 , 10, 11010	4.9	2
10	The role of PCSK9 in inflammation, immunity, and autoimmune diseases.. <i>Expert Review of Clinical Immunology</i> , 2021 , 1-8	5.1	2
9	Effects of Atorvastatin on T-Cell Activation and Apoptosis in Systemic Lupus Erythematosus and Novel Simulated Interactions With C-Reactive Protein and Interleukin 6. <i>ACR Open Rheumatology</i> , 2021 , 3, 642-653	3.5	2
8	C-reactive protein in traditional melanesians on Kitava. <i>BMC Cardiovascular Disorders</i> , 2020 , 20, 524	2.3	1
7	Antibodies Against Phosphorylcholine Among 60-Year-Olds: Clinical Role and Simulated Interactions.. <i>Frontiers in Cardiovascular Medicine</i> , 2022 , 9, 809007	5.4	1
6	Antibodies against phosphorylcholine in hospitalized versus non-hospitalized obese subjects. <i>Scientific Reports</i> , 2021 , 11, 20246	4.9	0

5	Higher levels of anti-phosphorylcholine autoantibodies in early rheumatoid arthritis indicate lower risk of incident cardiovascular events. <i>Arthritis Research and Therapy</i> , 2021 , 23, 201	5.7	o
4	AB0119 Fully Human Monoclonal Antibodies to Phosphorylcholine Inhibit Basal and Tnf-Induced IL-6 and ICAM-1 in Synovial-Like Fibroblasts from A Rheumatoid Arthritis. <i>Annals of the Rheumatic Diseases</i> , 2014 , 73, 843.2-843	2.4	
3	AB0617 Bone Mineral Density and Carotid Atherosclerosis in Systemic Lupus Erythematosus: A Controlled Cross-Sectional Study. <i>Annals of the Rheumatic Diseases</i> , 2015 , 74, 1105.3-1106	2.4	
2	AB1421-HPR Using the SF-MCGILL pain questionnaire, how do patients with SLE describe their pain?. <i>Annals of the Rheumatic Diseases</i> , 2013 , 71, 756.3-756	2.4	
1	SAT0026 HIGHER LEVELS OF NATURAL ANTI-PHOSPHORYLCHOLINE ANTIBODIES ARE ASSOCIATED WITH LOWER RISK OF INCIDENT CARDIOVASCULAR EVENTS IN YOUNGER PATIENTS WITH RHEUMATOID ARTHRITIS. <i>Annals of the Rheumatic Diseases</i> , 2020 , 79, 943.1-943	2.4	