Kai Kisand

List of Publications by Year
in descending order

102 papers	9,256 citations	87723 38 h-index	46693 89 g-index
110 all docs	110 docs citations	110 times ranked	16193 citing authors

#	Article	IF	Citations
1	Vaccine breakthrough hypoxemic COVID-19 pneumonia in patients with auto-Abs neutralizing type I IFNs. Science Immunology, 2023, 8, .	5.6	35
2	Allergoidâ€“mannan conjugates reprogram monocytes into tolerogenic dendritic cells via epigenetic and metabolic rewiring. Journal of Allergy and Clinical Immunology, 2022, 149, 212-222.e9.	1.5	34
3	Human genetic and immunological determinants of critical COVID-19 pneumonia. Nature, 2022, 603, 587-598.	13.7	216
4	Aireâ€dependent transcripts escape Raver2â€induced spliceâ€event inclusion in the thymic epithelium. EMBO Reports, 2022, 23, e53576.	2.0	6
5	Antibody levels remain high to one-yearâ€™s follow-up after moderate and severe COVID-19, but not after mild cases. Infectious Diseases, 2022, 54, 345-355.	1.4	7
6	Epigenetic quantification of immunosenescent CD8⁺ TEMRA cells in human blood. Aging Cell, 2022, 21, e13607.	3.0	18
7	Persistently Increased Anti-cytokine Antibodies Without Clinical Disease in a Boy with APS1 Genotype. Journal of Clinical Immunology, 2022, 42, 433-436.	2.0	2
8	The risk of COVID-19 death is much greater and age dependent with type I IFN autoantibodies. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, e2200413119.	3.3	110
9	Recessive inborn errors of type I IFN immunity in children with COVID-19 pneumonia. Journal of Experimental Medicine, 2022, 219, .	4.2	59
10	S95021, a novel selective and pan-neutralizing anti interferon alpha (IFN-Î±) monoclonal antibody as a candidate treatment for selected autoimmune rheumatic diseases. Journal of Translational Autoimmunity, 2021, 4, 100093.	2.0	3
11	Preexisting autoantibodies to type I IFNs underlie critical COVID-19 pneumonia in patients with APS-1. Journal of Experimental Medicine, 2021, 218, .	4.2	185
12	From Your Nose to Your Toes: A Review of Severe Acute Respiratory Syndrome Coronavirus 2 Pandemicâ€'Associated Pernio. Journal of Investigative Dermatology, 2021, 141, 2791-2796.	0.3	21
13	Human CD4 + and CD8 + T lymphocyte subpopulations have significantly different surface expression patterns of CD226 and TIGIT molecules. Scandinavian Journal of Immunology, 2021, 94, e13089.	1.3	3
14	Differential levels of IFNÎ± subtypes in autoimmunity and viral infection. Cytokine, 2021, 144, 155533.	1.4	12
15	Autoantibodies neutralizing type I IFNs are present in ~4% of uninfected individuals over 70 years old and account for ~20% of COVID-19 deaths. Science Immunology, 2021, 6, .	5.6	357
16	X-linked recessive TLR7 deficiency in ~1% of men under 60 years old with life-threatening COVID-19. Science Immunology, 2021, 6, .	5.6	267
17	Comment on â€œAberrant type 1 immunity drives susceptibility to mucosal fungal infectionsâ€. Science, 2021, 373, eabi6235.	6.0	7
18	Dynamics of antibody response to BNT162b2 vaccine after six months: a longitudinal prospective study. Lancet Regional Health - Europe, The, 2021, 10, 100208.	3.0	446

#	Article	IF	Citations
19	Loss of AIRE-Mediated Immune Tolerance and the Skin. Journal of Investigative Dermatology, 2021, , .	0.3	3
20	Long-Term Elevated Inflammatory Protein Levels in Asymptomatic SARS-CoV-2 Infected Individuals. Frontiers in Immunology, 2021, 12, 709759.	2.2	21
21	Prevalence of SARS-CoV-2 IgG antibodies and their association with clinical symptoms of COVID-19 in Estonia (KoroSero-EST-1 study). Vaccine, 2021, 39, 5376-5384.	1.7	9
22	Loss-of-function mutation in IKZF2 leads to immunodeficiency with dysregulated germinal center reactions and reduction of MAIT cells. Science Immunology, 2021, 6, eabe3454.	5.6	30
23	NickFect type of cell-penetrating peptides present enhanced efficiency for microRNA-146a delivery into dendritic cells and during skin inflammation. Biomaterials, 2020, 262, 120316.	5.7	32
24	Longitudinal proteomic profiling reveals increased early inflammation and sustained apoptosis proteins in severe COVID-19. Scientific Reports, 2020, 10, 20533.	1.6	66
25	Autoantibodies against type I IFNs in patients with life-threatening COVID-19. Science, 2020, 370, .	6.0	1,983
26	A dynamic COVID-19 immune signature includes associations with poor prognosis. Nature Medicine, 2020, 26, 1623-1635.	15.2	765
27	IL-22 Paucity in APECED Is Associated With Mucosal and Microbial Alterations in Oral Cavity. Frontiers in Immunology, 2020, 11, 838.	2.2	14
28	LIPS method for the detection of SARSâ€CoVâ€2 antibodies to spike and nucleocapsid proteins. European Journal of Immunology, 2020, 50, 1234-1236.	1.6	30
29	Monocytes present ageâ€related changes in phospholipid concentration and decreased energy metabolism. Aging Cell, 2020, 19, e13127.	3.0	42
30	Metabolic fitness is decreased in monocytes of old individuals. Aging, 2020, 12, 18791-18792.	1.4	0
31	Metabolic fitness is decreased in monocytes of old individuals. Aging, 2020, 12, 18791-18792.	1.4	0
32	Delineating the Healthy Human Skin UV ResponseÂand Early Induction of Interferon PathwayÂin Cutaneous Lupus Erythematosus. Journal of Investigative Dermatology, 2019, 139, 2058-2061.e4.	0.3	16
33	Interferon signature in patients with STAT1 gainâ€ofâ€function mutation is epigenetically determined. European Journal of Immunology, 2019, 49, 790-800.	1.6	39
34	Response to comment on 'AIRE-deficient patients harbor unique high-affinity disease-ameliorating autoantibodies'. ELife, 2019, 8, .	2.8	4
35	ILâ€22 neutralizing autoantibodies impair fungal clearance in murine oropharyngeal candidiasis model. European Journal of Immunology, 2018, 48, 464-470.	1.6	24
36	Lymphoid Stress Surveillance Response Contributes to Vitiligo Pathogenesis. Frontiers in Immunology, 2018, 9, 2707.	2.2	21

#	Article	IF	Citations
37	Unstimulated Adult Human B Cells Include an ILâ€10+ Population with Suppressive Properties and an Activated Phenotype. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2018, 93, 1150-1156.	1.1	0
38	Aortic Calcification in a Patient with a Gain-of-Function STAT1 Mutation. Journal of Clinical Immunology, 2018, 38, 468-470.	2.0	15
39	Breakdown of Immune Tolerance in AIRE-Deficient Rats Induces a Severe Autoimmune Polyendocrinopathyâ€“Candidiasisâ€“Ectodermal Dystrophyâ€“like Autoimmune Disease. Journal of Immunology, 2018, 201, 874-887.	0.4	24
40	Double Trouble? CMC with a Mutation in both AIRE and STAT1. Journal of Clinical Immunology, 2018, 38, 635-637.	2.0	3
41	Increased microRNA-323-3p in IL-22/IL-17-producing T cells and asthma: a role in the regulation of the TGF-Î² pathway and IL-22 production. Allergy: European Journal of Allergy and Clinical Immunology, 2017, 72, 55-65.	2.7	48
42	Unexplained cyanosis caused by hepatopulmonary syndrome in a girl with APECED syndrome. Journal of Pediatric Endocrinology and Metabolism, 2017, 30, 365-369.	0.4	3
43	DNA breaks and chromatin structural changes enhance the transcription of autoimmune regulator target genes. Journal of Biological Chemistry, 2017, 292, 6542-6554.	1.6	52
44	Irf4 Expression in Thymic Epithelium Is Critical for Thymic Regulatory T Cell Homeostasis. Journal of Immunology, 2017, 198, 1952-1960.	0.4	15
45	miR-146b Probably Assists miRNA-146a inÂthe Suppression of Keratinocyte Proliferation and Inflammatory ResponsesÂin Psoriasis. Journal of Investigative Dermatology, 2017, 137, 1945-1954.	0.3	68
46	Signs of innate immune activation and premature immunosenescence in psoriasis patients. Scientific Reports, 2017, 7, 7553.	1.6	34
47	Impaired salivary gland activity in patients with autoimmune polyendocrine syndrome type I. Autoimmunity, 2017, 50, 211-222.	1.2	13
48	Autoantibody Repertoire in APECED Patients Targets Two Distinct Subgroups of Proteins. Frontiers in Immunology, 2017, 8, 976.	2.2	48
49	Pathogenic implications for autoimmune mechanisms derived by comparative eQTL analysis of CD4+ versus CD8+ T cells. PLoS Genetics, 2017, 13, e1006643.	1.5	110
50	C-reactive protein upregulates the whole blood expression of CD59 - an integrative analysis. PLoS Computational Biology, 2017, 13, e1005766.	1.5	44
51	Anticommensal Responses Are Associated with Regulatory T Cell Defect in Autoimmune Polyendocrinopathyâ€“Candidiasisâ€“Ectodermal Dystrophy Patients. Journal of Immunology, 2016, 196, 2955-2964.	0.4	15
52	Heterozygous STAT1 gain-of-function mutations underlie an unexpectedly broad clinical phenotype. Blood, 2016, 127, 3154-3164.	0.6	465
53	ILâ€6â€specific autoantibodies among APECED and thymoma patients. Immunity, Inflammation and Disease, 2016, 4, 235-243.	1.3	24
54	AIRE-Deficient Patients Harbor Unique High-Affinity Disease-Ameliorating Autoantibodies. Cell, 2016, 166, 582-595.	13.5	228

#	Article	IF	Citations
55	Pregnancyâ€induced thymic involution is associated with suppression of chemokines essential for Tâ€lymphoid progenitor homing. European Journal of Immunology, 2016, 46, 2008-2017.	1.6	30
56	TNF superfamily members play distinct roles in shaping the thymic stromal microenvironment. Molecular Immunology, 2016, 72, 92-102.	1.0	18
57	Epigenetic profiling in CD4+ and CD8+ T cells from Graves' disease patients reveals changes in genes associated with T cell receptor signaling. Journal of Autoimmunity, 2016, 67, 46-56.	3.0	88
58	Autoimmune Diseases Arising out of Single Gene Defects. , 2016, , 142-149.		0
59	A highly conserved NFâ€ºBâ€responsive enhancer is critical for thymic expression of Aire in mice. European Journal of Immunology, 2015, 45, 3246-3256.	1.6	55
60	Dysregulation of adaptive immune responses in complement C3â€deficient patients. European Journal of Immunology, 2015, 45, 915-921.	1.6	12
61	Age-related profiling of DNA methylation in CD8+ T cells reveals changes in immune response and transcriptional regulator genes. Scientific Reports, 2015, 5, 13107.	1.6	148
62	Clinical, Genetic and Immunological Characteristics of Paediatric Autoimmune Polyglandular Syndrome Type 1 Patients in Slovenia / KliniÄne, Genetske nn ImunoloÅ¡ke ZnaÄilnosti Otrok In Mladostnikov Z Avtoimunskim Poliglandularnim Sindromom Tipa 1 V Sloveniji. Zdravstveno Varstvo, 2015, 54, 112-118.	0.6	5
63	SP140L, an Evolutionarily Recent Member of the SP100 Family, Is an Autoantigen in Primary Biliary Cirrhosis. Journal of Immunology Research, 2015, 2015, 1-17.	0.9	13
64	Autoimmune Polyendocrinopathy Candidiasis Ectodermal Dystrophy. Journal of Clinical Immunology, 2015, 35, 463-478.	2.0	87
65	MicroRNA-155 is Dysregulated in the Skin of Patients with Vitiligo and Inhibits Melanogenesis-associated Genes in Melanocytes and Keratinocytes. Acta Dermato-Venereologica, 2014, 96, 742-7.	0.6	23
66	In vivo analysis of helper T cell responses in patients with autoimmune polyendocrinopathy â€“ candidiasis â€“ ectodermal dystrophy provides evidence in support of an IL-22 defect. Autoimmunity, 2014, 47, 556-562.	1.2	21
67	Lymphopenia-Induced Proliferation in Aire-Deficient Mice Helps to Explain Their Autoimmunity and Differences from Human Patients. Frontiers in Immunology, 2014, 5, 51.	2.2	16
68	Interferon and Interferonâ€inducible Gene Activation in Patients with Type 1 Diabetes. Scandinavian Journal of Immunology, 2014, 80, 283-292.	1.3	32
69	Clinical and Serologic Parallels to APS-I in Patients with Thymomas and Autoantigen Transcripts in Their Tumors. Journal of Immunology, 2014, 193, 3880-3890.	0.4	46
70	CpG sites associated with NRP1, NRXN2 and miR-29b-2 are hypomethylated in monocytes during ageing. Immunity and Ageing, 2014, 11, 1.	1.8	26
71	Anti-Cytokine Autoantibodies Preceding Onset of Autoimmune Polyendocrine Syndrome Type I Features in Early Childhood. Journal of Clinical Immunology, 2013, 33, 1341-1348.	2.0	63
72	Assessment of interferon-related biomarkers in Aicardi-GoutiÃ¨res syndrome associated with mutations in TREX1, RNASEH2A, RNASEH2B, RNASEH2C, SAMHD1, and ADAR: a case-control study. Lancet Neurology, The, 2013, 12, 1159-1169.	4.9	473

#	Article	IF	Citations
73	Anti-cytokine autoantibodies suggest pathogenetic links with autoimmune regulator deficiency in humans and mice. Clinical and Experimental Immunology, 2013, 171, 263-272.	1.1	52
74	Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy and other primary immunodeficiency diseases help to resolve the nature of protective immunity against chronic mucocutaneous candidiasis. Current Opinion in Pediatrics, 2013, 25, 715-721.	1.0	14
75	AIRE-induced apoptosis is associated with nuclear translocation of stress sensor protein GAPDH. Biochemical and Biophysical Research Communications, 2012, 423, 32-37.	1.0	24
76	Post-Aire Maturation of Thymic Medullary Epithelial Cells Involves Selective Expression of Keratinocyte-Specific Autoantigens. Frontiers in Immunology, 2012, 3, 19.	2.2	123
77	Primary biliary cirrhosis: a multiâ€faced interactive disease involving genetics, environment and the immune response. Apmis, 2012, 120, 857-871.	0.9	21
78	Autoimmune polyendocrinopathy candidiasis ectodermal dystrophy: known and novel aspects of the syndrome. Annals of the New York Academy of Sciences, 2011, 1246, 77-91.	1.8	82
79	DNA methylation signatures of the AIRE promoter in thymic epithelial cells, thymomas and normal tissues. Molecular Immunology, 2011, 49, 518-526.	1.0	30
80	Mucocutaneous candidiasis and autoimmunity against cytokines in APECED and thymoma patients: Clinical and pathogenetic implications. European Journal of Immunology, 2011, 41, 1517-1527.	1.6	106
81	MicroRNA Expression Profiles of Human Blood Monocyte-derived Dendritic Cells and Macrophages Reveal miR-511 as Putative Positive Regulator of Toll-like Receptor 4. Journal of Biological Chemistry, 2011, 286, 26487-26495.	1.6	121
82	Genome-wide promoter analysis of histone modifications in human monocyte-derived antigen presenting cells. BMC Genomics, 2010, 11, 642.	1.2	29
83	Flow Cytometry Study of Blood Cell Subtypes Reflects Autoimmune and Inflammatory Processes in Autoimmune Polyendocrine Syndrome Type I. Scandinavian Journal of Immunology, 2010, 71, 459-467.	1.3	41
84	Ultrastructure of medullary thymic epithelial cells of autoimmune regulator (Aire)â€deficient mice. Immunology and Cell Biology, 2010, 88, 50-56.	1.0	12
85	Chronic mucocutaneous candidiasis in APECED or thymoma patients correlates with autoimmunity to Th17-associated cytokines. Journal of Experimental Medicine, 2010, 207, 299-308.	4.2	593
86	Human Peripheral Lymphoid Tissues Contain Autoimmune Regulator-Expressing Dendritic Cells. American Journal of Pathology, 2010, 176, 1104-1112.	1.9	101
87	Autoimmune Regulator Deficiency Results in Decreased Expression of CCR4 and CCR7 Ligands and in Delayed Migration of CD4+ Thymocytes. Journal of Immunology, 2009, 183, 7682-7691.	0.4	90
88	AIRE activated tissue specific genes have histone modifications associated with inactive chromatin. Human Molecular Genetics, 2009, 18, 4699-4710.	1.4	81
89	OR.88. Identification of a Subset of AIRE Expressing Dendritic Cell in Human Peripheral Lymphoid Tissues: Evidences for a Role in the Induction of Peripheral Tolerance. Clinical Immunology, 2009, 131, S36-S37.	1.4	0
90	Metallophilic macrophages are fully developed in the thymus of autoimmune regulator (Aire)-deficient mice. Histochemistry and Cell Biology, 2009, 131, 643-649.	0.8	6

#	Article	IF	Citations
91	Incontinentia pigmenti in a female conceived by in vitro fertilization. American Journal of Medical Genetics, Part A, 2008, 146A, 3092-3094.	0.7	1
92	Higher FoxP3 mRNA expression in peripheral blood mononuclear cells of GAD65 or IAâ€2 autoantibodyâ€positive compared with autoantibodyâ€negative persons. Apmis, 2008, 116, 896-902.	0.9	7
93	Oxidative stress in leucocytospermic prostatitis patients: preliminary results. Andrologia, 2008, 40, 161-172.	1.0	28
94	DNA-PK contributes to the phosphorylation of AIRE: Importance in transcriptional activity. Biochimica Et Biophysica Acta - Molecular Cell Research, 2008, 1783, 74-83.	1.9	70
95	Modulation of Aire regulates the expression of tissue-restricted antigens. Molecular Immunology, 2008, 45, 25-33.	1.0	92
96	Interferon autoantibodies associated with AIRE deficiency decrease the expression of IFN-stimulated genes. Blood, 2008, 112, 2657-2666.	0.6	98
97	Propensity to excessive proinflammatory response in chronic Lyme borreliosis. Apmis, 2007, 115, 134-141.	0.9	8
98	Serological description of Estonian patients with Lyme disease, a comparison with control sera from endemic and non-endemic areas. International Journal of Medical Microbiology Supplements, 2004, 293, 174-178.	0.8	0
99	Intracellular energetic units in cardiac cells: Targets in primary biliary cirrhosis. Journal of Molecular and Cellular Cardiology, 2002, 34, A57.	0.9	0
100	The follow-up of asymptomatic persons with antibodies to pyruvate dehydrogenase in adult population samples. Journal of Gastroenterology, 2001, 36, 248-254.	2.3	54
101	Ursodeoxycholic acid treatment lowers the serum level of antibodies against pyruvate dehydrogenase and influences their inhibitory capacity for the enzyme complex in patients with primary biliary cirrhosis. Journal of Molecular Medicine, 1996, 74, 269-274.	1.7	1
102	Enzyme-linked immunosorbent assays for the determination of IgG, IgA, and IgM autoantibodies to pyruvate dehydrogenase in primary biliary cirrhosis. International Journal of Clinical and Laboratory Research, 1994, 24, 98-101.	1.0	11