Paul J Utz

List of Publications by Year
in descending order

106 papers	9,013 citations	44069 48 h-index	43889 91 g-index
114 all docs	114 docs citations	114 times ranked	12289 citing authors

#	Article	IF	Citations
1	Noncovalent functionalization of carbon nanotubes for highly specific electronic biosensors. Proceedings of the National Academy of Sciences of the United States of America, 2003, 100, 4984-4989.	7.1	1,373
2	Autoantigen microarrays for multiplex characterization of autoantibody responses. Nature Medicine, 2002, 8, 295-301.	30.7	693
3	RAG2 PHD finger couples histone H3 lysine 4 trimethylation with V(D)J recombination. Nature, 2007, 450, 1106-1110.	27.8	429
4	Systems vaccinology of the BNT162b2 mRNA vaccine in humans. Nature, 2021, 596, 410-416.	27.8	313
5	New-onset IgG autoantibodies in hospitalized patients with COVID-19. Nature Communications, 2021, 12, 5417.	12.8	286
6	Single-Cell Chromatin Modification Profiling Reveals Increased Epigenetic Variations with Aging. Cell, 2018, 173, 1385-1397.e14.	28.9	250
7	Protein microarrays guide tolerizing DNA vaccine treatment of autoimmune encephalomyelitis. Nature Biotechnology, 2003, 21, 1033-1039.	17.5	242
8	Proteins Phosphorylated during Stress-induced Apoptosis Are Common Targets for Autoantibody Production in Patients with Systemic Lupus Erythematosus. Journal of Experimental Medicine, 1997, 185, 843-854.	8.5	230
9	Protein microarrays for multiplex analysis of signal transduction pathways. Nature Medicine, 2004, 10, 1390-1396.	30.7	204
10	Posttranslational protein modifications, apoptosis, and the bypass of tolerance to autoantigens. Arthritis and Rheumatism, 1998, 41, 1152-1160.	6.7	191
11	Apoptosis and other immune biomarkers predict influenza vaccine responsiveness. Molecular Systems Biology, 2013, 9, 659.	7.2	173
12	Death, autoantigen modifications, and tolerance. Arthritis Research, 2000, 2, 101.	2.0	140
13	The intersection of COVID-19 and autoimmunity. Journal of Clinical Investigation, 2021, 131, .	8.2	138
14	The single-cell epigenomic and transcriptional landscape of immunity to influenza vaccination. Cell, 2021, 184, 3915-3935.e21.	28.9	133
15	Clonal Evolution of Autoreactive Germinal Centers. Cell, 2017, 170, 913-926.e19.	28.9	118
16	Regulation of human Th9 differentiation by type I interferons and ILâ€21. Immunology and Cell Biology, 2010, 88, 624-631.	2.3	113
17	KIR ⁺ CD8 ⁺ T cells suppress pathogenic T cells and are active in autoimmune diseases and COVID-19. Science, 2022, 376, eabi9591.	12.6	113
18	Distinct phenotype of CD4+ T cells driving celiac disease identified in multiple autoimmune conditions. Nature Medicine, 2019, 25, 734-737.	30.7	112

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19	Portable, one-step, and rapid GMR biosensor platform with smartphone interface. Biosensors and Bioelectronics, 2016, 85, 1-7.	10.1	111
20	Gene expression changes reflect clinical response in a placebo-controlled randomized trial of abatacept in patients with diffuse cutaneous systemic sclerosis. Arthritis Research and Therapy, 2015, 17, 159.	3.5	104
21	MULTIPLEXED PROTEIN ARRAY PLATFORMS FOR ANALYSIS OF AUTOIMMUNE DISEASES. Annual Review of Immunology, 2006, 24, 391-418.	21.8	102
22	On silico peptide microarrays for high-resolution mapping of antibody epitopes and diverse protein-protein interactions. Nature Medicine, 2012, 18, 1434-1440.	30.7	97
23	The La (SS-B) autoantigen, a key protein in RNA biogenesis, is dephosphorylated and cleaved early during apoptosis. Cell Death and Differentiation, 1999, 6, 976-986.	11.2	93
24	Methods for high-dimensional analysis of cells dissociated from cryopreserved synovial tissue. Arthritis Research and Therapy, 2018, 20, 139.	3.5	93
25	Protein microarray analysis reveals BAFF-binding autoantibodies in systemic lupus erythematosus. Journal of Clinical Investigation, 2013, 123, 5135-5145.	8.2	92
26	Association of Phosphorylated Serine/Arginine (SR) Splicing Factors With The U1â€“Small Ribonucleoprotein (snRNP) Autoantigen Complex Accompanies Apoptotic Cell Death. Journal of Experimental Medicine, 1998, 187, 547-560.	8.5	91
27	Microarray Profiling of Antibody Responses against Simian-Human Immunodeficiency Virus: Postchallenge Convergence of Reactivities Independent of Host Histocompatibility Type and Vaccine Regimen. Journal of Virology, 2003, 77, 11125-11138.	3.4	90
28	An array of possibilities for the study of autoimmunity. Nature, 2005, 435, 605-611.	27.8	89
29	Autoantibody profiling for the study and treatment of autoimmune disease. Arthritis Research, 2002, 4, 290.	2.0	84
30	IRF9 and STAT1 are required for IgG autoantibody production and B cell expression of TLR7 in mice. Journal of Clinical Investigation, 2008, 118, 1417-1426.	8.2	82
31	Protein arrays for autoantibody profiling and fine-specificity mapping. Proteomics, 2003, 3, 2077-2084.	2.2	81
32	New tools for classification and monitoring of autoimmune diseases. Nature Reviews Rheumatology, 2012, 8, 317-328.	8.0	81
33	Autoantibodyâ€Positive Healthy Individuals Display Unique Immune Profiles That May Regulate Autoimmunity. Arthritis and Rheumatology, 2016, 68, 2492-2502.	5.6	79
34	Nucleic Acid-Targeting Pathways Promote Inflammation in Obesity-Related Insulin Resistance. Cell Reports, 2016, 16, 717-730.	6.4	77
35	Rapid Nucleolytic Degradation of the Small Cytoplasmic Y RNAs during Apoptosis. Journal of Biological Chemistry, 1999, 274, 24799-24807.	3.4	76
36	Proteomics technologies for the study of autoimmune disease. Arthritis and Rheumatism, 2002, 46, 885-893.	6.7	71

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37	Type I interferon receptor controls B-cell expression of nucleic acid-sensing Toll-like receptors and autoantibody production in a murine model of lupus. Arthritis Research and Therapy, 2009, 11, R112.	3.5	71
38	Early non-neutralizing, afucosylated antibody responses are associated with COVID-19 severity. Science Translational Medicine, 2022, 14, eabm7853.	12.4	71
39	Sex Differences in the Blood Transcriptome Identify Robust Changes in Immune Cell Proportions with Aging and Influenza Infection. Cell Reports, 2019, 29, 1961-1973.e4.	6.4	70
40	Cytokines secreted in response to Tollâ€like receptor ligand stimulation modulate differentiation of human Th17 cells. Arthritis and Rheumatism, 2008, 58, 1619-1629.	6.7	67
41	Murine CD4+CD25+ Regulatory T Cells Fail to Undergo Chromatin Remodeling Across the Proximal Promoter Region of the IL-2 Gene. Journal of Immunology, 2004, 173, 4994-5001.	0.8	66
42	Single-cell systems-level analysis of human Toll-like receptor activation defines a chemokine signature in patients with systemic lupus erythematosus. Journal of Allergy and Clinical Immunology, 2015, 136, 1326-1336.	2.9	66
43	AIRE expression controls the peripheral selection of autoreactive B cells. Science Immunology, 2019, 4, .	11.9	65
44	Sources of autoantigens in systemic lupus erythematosus. Current Opinion in Rheumatology, 2005, 17, 513-517.	4.3	64
45	The 72-kDa Component of Signal Recognition Particle Is Cleaved during Apoptosis. Journal of Biological Chemistry, 1998, 273, 35362-35370.	3.4	62
46	Human Autoimmune Sera as Molecular Probes for the Identification of an Autoantigen Kinase Signaling Pathway. Journal of Experimental Medicine, 2002, 196, 1213-1226.	8.5	57
47	Integrated, multicohort analysis of systemic sclerosis identifies robust transcriptional signature of disease severity. JCI Insight, 2016, 1, e89073.	5.0	57
48	The U1â€snRNP complex: structural properties relating to autoimmune pathogenesis in rheumatic diseases. Immunological Reviews, 2010, 233, 126-145.	6.0	56
49	A proteomic approach for the identification of novel lysine methyltransferase substrates. Epigenetics and Chromatin, 2011, 4, 19.	3.9	55
50	KLRD1-expressing natural killer cells predict influenza susceptibility. Genome Medicine, 2018, 10, 45.	8.2	51
51	TH1, TH2, and TH17 cells instruct monocytes to differentiate into specialized dendritic cell subsets. Blood, 2011, 118, 3311-3320.	1.4	48
52	Protein arrays for studying blood cells and their secreted products. Immunological Reviews, 2005, 204, 264-282.	6.0	47
53	Neutralizing Anti-Cytokine Autoantibodies Against Interferon-Î± in Immunodysregulation Polyendocrinopathy Enteropathy X-Linked. Frontiers in Immunology, 2018, 9, 544.	4.8	46
54	Autoantigen microarrays reveal autoantibodies associated with proliferative nephritis and active disease in pediatric systemic lupus erythematosus. Arthritis Research and Therapy, 2015, 17, 162.	3.5	44

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55	Characterization of Influenza Vaccine Immunogenicity Using Influenza Antigen Microarrays. PLoS ONE, 2013, 8, e64555.	2.5	44
56	Multiplexed cytokine detection on plasmonic gold substrates with enhanced near-infrared fluorescence. Nano Research, 2013, 6, 113-120.	10.4	42
57	Unique SjÃ¶grenâ€™s syndrome patient subsets defined by molecular features. Rheumatology, 2020, 59, 860-868.	1.9	41
58	Brief Report: Interferonâ€Î± Induction and Detection of Antiâ€Ro, Antiâ€La, Antiâ€Sm, and Antiâ€RNP Autoantibodies by Autoantigen Microarray Analysis in Juvenile Dermatomyositis. Arthritis and Rheumatism, 2013, 65, 2424-2429.	6.7	37
59	Repression of CTSG, ELANE and PRTN3-mediated histone H3 proteolytic cleavage promotes monocyte-to-macrophage differentiation. Nature Immunology, 2021, 22, 711-722.	14.5	36
60	Integrated, multicohort analysis reveals unified signature of systemic lupus erythematosus. JCI Insight, 2020, 5, .	5.0	36
61	Monoclonal Antibodies Derived from BALB/c Mice Immunized with Apoptotic Jurkat T cells Recognize Known Autoantigens. Journal of Autoimmunity, 2001, 16, 59-69.	6.5	35
62	Mycophenolate mofetil reduces STAT3 phosphorylation in systemic lupus erythematosus patients. JCI Insight, 2019, 4, .	5.0	34
63	A new two-color Fab labeling method for autoantigen protein microarrays. Nature Methods, 2006, 3, 745-751.	19.0	33
64	Regulation of ribosomal RNA synthesis in T cells: requirement for GTP and Ebp1. Blood, 2015, 125, 2519-2529.	1.4	32
65	Genomic and proteomic analysis of multiple sclerosis Opinion. Current Opinion in Immunology, 2003, 15, 660-667.	5.5	31
66	HIT: a versatile proteomics platform for multianalyte phenotyping of cytokines, intracellular proteins and surface molecules. Nature Medicine, 2008, 14, 1284-1289.	30.7	31
67	Quantification of cDNA on GMR biosensor array towards point-of-care gene expression analysis. Biosensors and Bioelectronics, 2019, 130, 338-343.	10.1	31
68	High-throughput Methods for Measuring Autoantibodies in Systemic Lupus Erythematosus and other Autoimmune Diseases. Autoimmunity, 2004, 37, 269-272.	2.6	30
69	Multiplex giant magnetoresistive biosensor microarrays identify interferon-associated autoantibodies in systemic lupus erythematosus. Scientific Reports, 2016, 6, 27623.	3.3	30
70	Antigen-specific tolerance to self-antigens in protein replacement therapy, gene therapy and autoimmunity. Current Opinion in Immunology, 2019, 61, 46-53.	5.5	30
71	Single-cell technologies â€" studying rheumatic diseases one cell at a time. Nature Reviews Rheumatology, 2019, 15, 340-354.	8.0	30
72	Single-cell epigenetics â€" Chromatin modification atlas unveiled by mass cytometry. Clinical Immunology, 2018, 196, 40-48.	3.2	29

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73	Treatment with a Toll-like receptor inhibitory GpG oligonucleotide delays and attenuates lupus nephritis in NZB/W mice. Autoimmunity, 2010, 43, 140-155.	2.6	28
74	Protein Microarrays: A New Tool for the Study of Autoantibodies in Immunodeficiency. Frontiers in Immunology, 2015, 6, 138.	4.8	27
75	Autoantibody-positive healthy individuals with lower lupus risk display a unique immune endotype. Journal of Allergy and Clinical Immunology, 2020, 146, 1419-1433.	2.9	27
76	Interferon-?-inducible proteins are novel autoantigens in murine lupus. Arthritis and Rheumatism, 2004, 50, 3239-3249.	6.7	25
77	Small nucleolar RNP scleroderma autoantigens associate with phosphorylated serine/arginine splicing factors during apoptosis. Arthritis and Rheumatism, 2000, 43, 1327-1336.	6.7	24
78	Autoantigen arrays for multiplex analysis of antibody isotypes. Proteomics, 2006, 6, 5720-5724.	2.2	22
79	Tetramers reveal IL-17â€“secreting CD4⁺T cells that are specific for U1-70 in lupus and mixed connective tissue disease. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 3044-3049.	7.1	22
80	High-Resolution Analysis of Antibodies to Post-Translational Modifications Using Peptide Nanosensor Microarrays. ACS Nano, 2016, 10, 10652-10660.	14.6	21
81	Ly108 expression distinguishes subsets of invariant NKT cells that help autoantibody production and secrete IL-21 from those that secrete IL-17 in lupus prone NZB/W mice. Journal of Autoimmunity, 2014, 50, 87-98.	6.5	20
82	Proteomic Analysis of Sera from Individuals with Diffuse Cutaneous Systemic Sclerosis Reveals a Multianalyte Signature Associated with Clinical Improvement during Imatinib Mesylate Treatment. Journal of Rheumatology, 2017, 44, 631-638.	2.0	19
83	Technology Insight: can autoantibody profiling improve clinical practice?. Nature Clinical Practice Rheumatology, 2007, 3, 96-103.	3.2	18
84	Protein microarrays identify disease-specific anti-cytokine autoantibody profiles in the landscape of immunodeficiency. Journal of Allergy and Clinical Immunology, 2016, 137, 204-213.e3.	2.9	17
85	Granzyme B and natural killer (NK) cell death. Modern Rheumatology, 2005, 15, 315-322.	1.8	16
86	Granzyme B and natural killer (NK) cell death. Modern Rheumatology, 2005, 15, 315-322.	1.8	15
87	Granzyme B is dispensable for immunologic tolerance to self in a murine model of systemic lupus erythematosus. Arthritis and Rheumatism, 2005, 52, 1684-1693.	6.7	15
88	Proteolytic Cleavage of the Catalytic Subunit of DNA-Dependent Protein Kinase during Poliovirus Infection. Journal of Virology, 2004, 78, 6313-6321.	3.4	14
89	Complement C4A Regulates Autoreactive B Cells in Murine Lupus. Cell Reports, 2020, 33, 108330.	6.4	13
90	Mapping epitopes of U1-70K autoantibodies at single-amino acid resolution. Autoimmunity, 2015, 48, 513-523.	2.6	11

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91	Smith-Magenis Syndrome Patients Often Display Antibody Deficiency but Not Other Immune Pathologies. Journal of Allergy and Clinical Immunology: in Practice, 2017, 5, 1344-1350.e3.	3.8	11
92	Mining the Proteome Associated with Rheumatic and Autoimmune Diseases. Journal of Proteome Research, 2019, 18, 4231-4239.	3.7	11
93	Translating science to medicine: The case for physician-scientists. Science Translational Medicine, 2022, 14, eabg7852.	12.4	11
94	A GMR-based assay for quantification of the human response to influenza. Biosensors and Bioelectronics, 2022, 205, 114086.	10.1	11
95	Single-cell analysis of siRNA-mediated gene silencing using multiparameter flow cytometry. Cytometry Part A: the Journal of the International Society for Analytical Cytology, 2006, 69A, 59-65.	1.5	9
96	Identification of Candidate Tolerogenic CD8⁺T Cell Epitopes for Therapy of Type 1 Diabetes in the NOD Mouse Model. Journal of Diabetes Research, 2016, 2016, 1-12.	2.3	9
97	The Challenge of Analyzing the Proteome in Humans with Autoimmune Diseases. Annals of the New York Academy of Sciences, 2005, 1062, 61-68.	3.8	8
98	Anti-Insulin Immune Responses Are Detectable in Dogs with Spontaneous Diabetes. PLoS ONE, 2016, 11, e0152397.	2.5	8
99	Cytokine signatures differentiate systemic sclerosis patients at high versus low risk for pulmonary arterial hypertension. Arthritis Research and Therapy, 2022, 24, 39.	3.5	7
100	Characterization of novel antigens recognized by serum autoantibodies from anti-CD1 TCR-transgenic lupus mice. European Journal of Immunology, 2004, 34, 1654-1662.	2.9	6
101	High Interferon Signature Leads to Increased STAT1/3/5 Phosphorylation in PBMCs From SLE Patients by Single Cell Mass Cytometry. Frontiers in Immunology, 2022, 13, 833636.	4.8	5
102	â€œHot technologiesâ€•for clinical immunology research. Clinical Immunology, 2004, 111, 153-154.	3.2	4
103	Innovations in MD-only physician-scientist training: experiences from the Burroughs Wellcome Fund physician-scientist institutional award initiative. Journal of Clinical Investigation, 2021, 131, .	8.2	4
104	Antiâ€phospholipid antibodies are elevated and functionally active in chronic rhinosinusitis with nasal polyps. Clinical and Experimental Allergy, 2022, 52, 954-964.	2.9	4
105	Modification of RNA Antigens in Apoptosis. , 0, , 299-315.		0
106	Aberrant Histone Landscape in Juvenile Myelomonocytic Leukemia. Blood, 2021, 138, 4328-4328.	1.4	0