

Leif E Sander

List of Publications by Year in descending order

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95
papers

12,085
citations

53794

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42399

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123
all docs

123
docs citations

123
times ranked

22239
citing authors

#	ARTICLE	IF	CITATIONS
1	Severe COVID-19 Is Marked by a Dysregulated Myeloid Cell Compartment. <i>Cell</i> , 2020, 182, 1419-1440.e23.	28.9	1,162
2	SARS-CoV-2-reactive T cells in healthy donors and patients with COVID-19. <i>Nature</i> , 2020, 587, 270-274.	27.8	1,115
3	COVID-19 severity correlates with airway epithelium-immune cell interactions identified by single-cell analysis. <i>Nature Biotechnology</i> , 2020, 38, 970-979.	17.5	887
4	Ultra-High-Throughput Clinical Proteomics Reveals Classifiers of COVID-19 Infection. <i>Cell Systems</i> , 2020, 11, 11-24.e4.	6.2	439
5	Estimating infectiousness throughout SARS-CoV-2 infection course. <i>Science</i> , 2021, 373, .	12.6	389
6	Detection of prokaryotic mRNA signifies microbial viability and promotes immunity. <i>Nature</i> , 2011, 474, 385-389.	27.8	378
7	Swarm Learning for decentralized and confidential clinical machine learning. <i>Nature</i> , 2021, 594, 265-270.	27.8	375
8	mRNA booster immunization elicits potent neutralizing serum activity against the SARS-CoV-2 Omicron variant. <i>Nature Medicine</i> , 2022, 28, 477-480.	30.7	342
9	Lymphocyte Circadian Clocks Control Lymph Node Trafficking and Adaptive Immune Responses. <i>Immunity</i> , 2017, 46, 120-132.	14.3	324
10	Human Anti-fungal Th17 Immunity and Pathology Rely on Cross-Reactivity against <i>Candida albicans</i> . <i>Cell</i> , 2019, 176, 1340-1355.e15.	28.9	321
11	A Therapeutic Non-self-reactive SARS-CoV-2 Antibody Protects from Lung Pathology in a COVID-19 Hamster Model. <i>Cell</i> , 2020, 183, 1058-1069.e19.	28.9	305
12	Hepatic acute-phase proteins control innate immune responses during infection by promoting myeloid-derived suppressor cell function. <i>Journal of Experimental Medicine</i> , 2010, 207, 1453-1464.	8.5	295
13	Safety, reactogenicity, and immunogenicity of homologous and heterologous prime-boost immunisation with ChAdOx1 nCoV-19 and BNT162b2: a prospective cohort study. <i>Lancet Respiratory Medicine</i> , 2021, 9, 1255-1265.	10.7	279
14	Longitudinal Multi-omics Analyses Identify Responses of Megakaryocytes, Erythroid Cells, and Plasmablasts as Hallmarks of Severe COVID-19. <i>Immunity</i> , 2020, 53, 1296-1314.e9.	14.3	278
15	SARS-CoV-2 infection triggers profibrotic macrophage responses and lung fibrosis. <i>Cell</i> , 2021, 184, 6243-6261.e27.	28.9	277
16	Mitochondrial respiratory-chain adaptations in macrophages contribute to antibacterial host defense. <i>Nature Immunology</i> , 2016, 17, 1037-1045.	14.5	259
17	Beyond pattern recognition: five immune checkpoints for scaling the microbial threat. <i>Nature Reviews Immunology</i> , 2012, 12, 215-225.	22.7	229
18	Pre-activated antiviral innate immunity in the upper airways controls early SARS-CoV-2 infection in children. <i>Nature Biotechnology</i> , 2022, 40, 319-324.	17.5	229

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19	Cross-reactive CD4 ⁺ T cells enhance SARS-CoV-2 immune responses upon infection and vaccination. <i>Science</i> , 2021, 374, eabh1823.	12.6	221
20	Mucosal BCG Vaccination Induces Protective Lung-Resident Memory T Cell Populations against Tuberculosis. <i>MBio</i> , 2016, 7, .	4.1	205
21	IFNs Modify the Proteome of Legionella-Containing Vacuoles and Restrict Infection Via IRG1-Derived Itaconic Acid. <i>PLoS Pathogens</i> , 2016, 12, e1005408.	4.7	195
22	Ultra-fast proteomics with Scanning SWATH. <i>Nature Biotechnology</i> , 2021, 39, 846-854.	17.5	173
23	NLR4 inflammasomes in dendritic cells regulate noncognate effector function by memory CD8 ⁺ T cells. <i>Nature Immunology</i> , 2012, 13, 162-169.	14.5	150
24	Untimely TGF β 2 responses in COVID-19 limit antiviral functions of NK cells. <i>Nature</i> , 2021, 600, 295-301.	27.8	146
25	Early IFN γ signatures and persistent dysfunction are distinguishing features of NK cells in severe COVID-19. <i>Immunity</i> , 2021, 54, 2650-2669.e14.	14.3	145
26	Recognition of microbial viability via TLR8 drives TFH cell differentiation and vaccine responses. <i>Nature Immunology</i> , 2018, 19, 386-396.	14.5	139
27	Selective expression of histamine receptors H1R, H2R, and H4R, but not H3R, in the human intestinal tract. <i>Gut</i> , 2006, 55, 498-504.	12.1	133
28	Hypertension delays viral clearance and exacerbates airway hyperinflammation in patients with COVID-19. <i>Nature Biotechnology</i> , 2021, 39, 705-716.	17.5	129
29	A time-resolved proteomic and prognostic map of COVID-19. <i>Cell Systems</i> , 2021, 12, 780-794.e7.	6.2	125
30	Complement activation induces excessive T cell cytotoxicity in severe COVID-19. <i>Cell</i> , 2022, 185, 493-512.e25.	28.9	122
31	Vesicle associated membrane protein (VAMP) β 7 and VAMP β 8, but not VAMP β 2 or VAMP β 3, are required for activation-induced degranulation of mature human mast cells. <i>European Journal of Immunology</i> , 2008, 38, 855-863.	2.9	97
32	Phage capsid nanoparticles with defined ligand arrangement block influenza virus entry. <i>Nature Nanotechnology</i> , 2020, 15, 373-379.	31.5	96
33	Hepatocyte-specific NEMO deletion promotes NK/NKT cell β and TRAIL-dependent liver damage. <i>Journal of Experimental Medicine</i> , 2009, 206, 1727-1737.	8.5	83
34	Prothymosin β inhibits HIV-1 via Toll-like receptor 4-mediated type I interferon induction. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 10178-10183.	7.1	83
35	Studying the pathophysiology of coronavirus disease 2019: a protocol for the Berlin prospective COVID-19 patient cohort (Pa-COVID-19). <i>Infection</i> , 2020, 48, 619-626.	4.7	79
36	Retinol-Binding Protein 4 and Its Membrane Receptor STRA6 Control Adipogenesis by Regulating Cellular Retinoid Homeostasis and Retinoic Acid Receptor β Activity. <i>Molecular and Cellular Biology</i> , 2013, 33, 4068-4082.	2.3	77

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37	Antibiotic treatment-induced secondary IgA deficiency enhances susceptibility to <i>Pseudomonas aeruginosa</i> pneumonia. <i>Journal of Clinical Investigation</i> , 2018, 128, 3535-3545.	8.2	75
38	Lack of interleukin-6/glycoprotein 130/signal transducers and activators of transcription-3 signaling in hepatocytes predisposes to liver steatosis and injury in mice. <i>Hepatology</i> , 2010, 51, 463-473.	7.3	71
39	Sensing Microbial Viability through Bacterial RNA Augments T Follicular Helper Cell and Antibody Responses. <i>Immunity</i> , 2018, 48, 584-598.e5.	14.3	71
40	Temporal omics analysis in Syrian hamsters unravel cellular effector responses to moderate COVID-19. <i>Nature Communications</i> , 2021, 12, 4869.	12.8	68
41	Delayed Antibody and T-Cell Response to BNT162b2 Vaccination in the Elderly, Germany. <i>Emerging Infectious Diseases</i> , 2021, 27, 2174-2178.	4.3	67
42	Long-term immunogenicity of BNT162b2 vaccination in older people and younger health-care workers. <i>Lancet Respiratory Medicine</i> , 2021, 9, e104-e105.	10.7	65
43	Spectrum of pathogen- and model-specific histopathologies in mouse models of acute pneumonia. <i>PLoS ONE</i> , 2017, 12, e0188251.	2.5	64
44	Severity of respiratory failure and computed chest tomography in acute COVID-19 correlates with pulmonary function and respiratory symptoms after infection with SARS-CoV-2: An observational longitudinal study over 12 months. <i>Respiratory Medicine</i> , 2022, 191, 106709.	2.9	63
45	NOD-Like Receptors in Lung Diseases. <i>Frontiers in Immunology</i> , 2013, 4, 393.	4.8	57
46	Immunogenicity of COVID-19 Tozinameran Vaccination in Patients on Chronic Dialysis. <i>Frontiers in Immunology</i> , 2021, 12, 690698.	4.8	52
47	Increased risk of severe clinical course of COVID-19 in carriers of HLA-C*04:01. <i>EClinicalMedicine</i> , 2021, 40, 101099.	7.1	52
48	A Semi-synthetic Oligosaccharide Conjugate Vaccine Candidate Confers Protection against <i>Streptococcus pneumoniae</i> Serotype 3 Infection. <i>Cell Chemical Biology</i> , 2016, 23, 1407-1416.	5.2	51
49	Disease Severity, Fever, Age, and Sex Correlate With SARS-CoV-2 Neutralizing Antibody Responses. <i>Frontiers in Immunology</i> , 2020, 11, 628971.	4.8	51
50	Hepatocyte-specific inhibitor-of-kappaB-kinase deletion triggers the innate immune response and promotes earlier cell proliferation during liver regeneration. <i>Hepatology</i> , 2008, 47, 2036-2050.	7.3	50
51	CD169/SIGLEC1 is expressed on circulating monocytes in COVID-19 and expression levels are associated with disease severity. <i>Infection</i> , 2021, 49, 757-762.	4.7	47
52	The common HAQ STING variant impairs cGAS-dependent antibacterial responses and is associated with susceptibility to Legionnaires' disease in humans. <i>PLoS Pathogens</i> , 2018, 14, e1006829.	4.7	43
53	SARS-CoV-2 Proteome-Wide Analysis Revealed Significant Epitope Signatures in COVID-19 Patients. <i>Frontiers in Immunology</i> , 2021, 12, 629185.	4.8	42
54	Discovery of ultrapotent broadly neutralizing antibodies from SARS-CoV-2 elite neutralizers. <i>Cell Host and Microbe</i> , 2022, 30, 69-82.e10.	11.0	42

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55	Gp130 Signaling Promotes Development of Acute Experimental Colitis by Facilitating Early Neutrophil/Macrophage Recruitment and Activation. <i>Journal of Immunology</i> , 2008, 181, 3586-3594.	0.8	37
56	Altered fibrin clot structure and dysregulated fibrinolysis contribute to thrombosis risk in severe COVID-19. <i>Blood Advances</i> , 2022, 6, 1074-1087.	5.2	35
57	Noncoding RNA <i>Mall1</i> is an integral component of the TLR4-TRIF pathway. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2020, 117, 9042-9053.	7.1	33
58	The mitochondrial respiratory chain: A metabolic rheostat of innate immune cell-mediated antibacterial responses. <i>Mitochondrion</i> , 2018, 41, 28-36.	3.4	30
59	A proteomic survival predictor for COVID-19 patients in intensive care. , 2022, 1, e0000007.		28
60	Durability of omicron-neutralising serum activity after mRNA booster immunisation in older adults. <i>Lancet Infectious Diseases</i> , The, 2022, 22, 445-446.	9.1	28
61	Clinical and virological characteristics of hospitalised COVID-19 patients in a German tertiary care centre during the first wave of the SARS-CoV-2 pandemic: a prospective observational study. <i>Infection</i> , 2021, 49, 703-714.	4.7	27
62	Dead or alive: how the immune system detects microbial viability. <i>Current Opinion in Immunology</i> , 2019, 56, 60-66.	5.5	26
63	Is interleukin-6 a gender-specific risk factor for liver cancer?. <i>Hepatology</i> , 2007, 46, 1304-1305.	7.3	24
64	Interferon- β regulates growth and controls Fc γ receptor expression and activation in human intestinal mast cells. <i>BMC Immunology</i> , 2014, 15, 27.	2.2	21
65	Innate sensors that regulate vaccine responses. <i>Current Opinion in Immunology</i> , 2019, 59, 31-41.	5.5	21
66	A Dual-Antigen Enzyme-Linked Immunosorbent Assay Allows the Assessment of Severe Acute Respiratory Syndrome Coronavirus 2 Antibody Seroprevalence in a Low-Transmission Setting. <i>Journal of Infectious Diseases</i> , 2021, 223, 10-14.	4.0	21
67	Heart failure with preserved ejection fraction according to the HFA-PEFF score in COVID-19 patients: clinical correlates and echocardiographic findings. <i>European Journal of Heart Failure</i> , 2021, 23, 1891-1902.	7.1	21
68	NLRP3 protects alveolar barrier integrity by an inflammasome-independent increase of epithelial cell adherence. <i>Scientific Reports</i> , 2016, 6, 30943.	3.3	20
69	SARS-CoV-2 mRNA vaccinations fail to elicit humoral and cellular immune responses in patients with multiple sclerosis receiving fingolimod. <i>Journal of Neurology, Neurosurgery and Psychiatry</i> , 2022, 93, 960-971.	1.9	20
70	The cGAS/STING Pathway Detects <i>Streptococcus pneumoniae</i> but Appears Dispensable for Antipneumococcal Defense in Mice and Humans. <i>Infection and Immunity</i> , 2018, 86, .	2.2	18
71	Outbreak of SARS-CoV-2 B.1.1.7 Lineage after Vaccination in Long-Term Care Facility, Germany, February-March 2021. <i>Emerging Infectious Diseases</i> , 2021, 27, 2169-2173.	4.3	17
72	Early and Rapid Identification of COVID-19 Patients with Neutralizing Type I Interferon Auto-antibodies. <i>Journal of Clinical Immunology</i> , 2022, 42, 1111-1129.	3.8	17

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73	A multiplex protein panel assay for severity prediction and outcome prognosis in patients with COVID-19: An observational multi-cohort study. <i>EClinicalMedicine</i> , 2022, 49, 101495.	7.1	17
74	Follicular Helper-like T Cells in the Lung Highlight a Novel Role of B Cells in Sarcoidosis. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 204, 1403-1417.	5.6	16
75	Cutting Edge: Serum but Not Mucosal Antibody Responses Are Associated with Pre-Existing SARS-CoV-2 Spike Cross-Reactive CD4+ T Cells following BNT162b2 Vaccination in the Elderly. <i>Journal of Immunology</i> , 2022, 208, 1001-1005.	0.8	16
76	Breakdown in membrane asymmetry regulation leads to monocyte recognition of <i>P. falciparum</i> -infected red blood cells. <i>PLoS Pathogens</i> , 2021, 17, e1009259.	4.7	14
77	Adjuvant immunotherapies as a novel approach to bacterial infections. <i>Immunotherapy</i> , 2013, 5, 365-381.	2.0	13
78	Myeloid cells require gp130 signaling for protective anti-inflammatory functions during sepsis. <i>FASEB Journal</i> , 2019, 33, 6035-6044.	0.5	13
79	Impact of dexamethasone on SARS-CoV-2 concentration kinetics and antibody response in hospitalized COVID-19 patients: results from a prospective observational study. <i>Clinical Microbiology and Infection</i> , 2021, 27, 1520.e7-1520.e10.	6.0	13
80	Macrophage activation syndrome in a patient with adult-onset Still's disease following first COVID-19 vaccination with BNT162b2. <i>BMC Rheumatology</i> , 2021, 5, 60.	1.6	13
81	Cross-Variant Neutralizing Serum Activity after SARS-CoV-2 Breakthrough Infections. <i>Emerging Infectious Diseases</i> , 2022, 28, 1050-1052.	4.3	11
82	Toward a universal flu vaccine. <i>Science</i> , 2020, 367, 852-853.	12.6	10
83	Characterization of antimicrobial use and co-infections among hospitalized patients with COVID-19: a prospective observational cohort study. <i>Infection</i> , 2022, 50, 1441-1452.	4.7	10
84	Deciphering the Role of Humoral and Cellular Immune Responses in Different COVID-19 Vaccines: A Comparison of Vaccine Candidate Genes in Roborovski Dwarf Hamsters. <i>Viruses</i> , 2021, 13, 2290.	3.3	7
85	RNA-Cholesterol Nanoparticles Function as Potent Immune Activators via TLR7 and TLR8. <i>Frontiers in Immunology</i> , 2021, 12, 658895.	4.8	7
86	Lessons from a patient with an unusual hepatic overlap syndrome. <i>Nature Reviews Gastroenterology & Hepatology</i> , 2007, 4, 635-640.	1.7	3
87	Innate Immune Cells Cast an Eye on DNA. <i>Journal of Molecular Cell Biology</i> , 2009, 1, 77-79.	3.3	3
88	Inflammasome and toll-like receptor 9: Partners in crime in toxic liver injury. <i>Hepatology</i> , 2009, 49, 2119-2121.	7.3	3
89	Improved vaccines through targeted manipulation of the body's immunological risk assessment?. <i>BioEssays</i> , 2012, 34, 876-884.	2.5	3
90	Differential Role of gp130-Dependent STAT and Ras Signalling for Haematopoiesis Following Bone-Marrow Transplantation. <i>PLoS ONE</i> , 2012, 7, e39728.	2.5	3

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91	Clonal expansion of CD4+CD8+ T cells in an adult patient with Mycoplasma pneumoniae-associated Erythema multiforme majus. Allergy, Asthma and Clinical Immunology, 2021, 17, 17.	2.0	2
92	A semisynthetic glycoconjugate provides expanded cross-serotype protection against Streptococcus pneumoniae. Vaccine, 2022, 40, 1038-1046.	3.8	2
93	Local Encounters: Extrafollicular T-Cell/B-Cell Interactions in Airway Inflammation. American Journal of Respiratory Cell and Molecular Biology, 2018, 59, 403-404.	2.9	0
94	Echocardiographic Evaluation of Right Ventricular (RV) Performance over Time in COVID-19-Associated ARDS—A Prospective Observational Study. Journal of Clinical Medicine, 2021, 10, 1944.	2.4	0
95	Abstract 14962: Empagliflozin's Cardiovascular Impact in High-Risk Patients With Type 2 Diabetes and Obstructive Pulmonary Disease: An Inquiry From EMPA-REG OUTCOME. Circulation, 2020, 142, .	1.6	0