Horst von Bernuth

List of Publications by Year
in descending order

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110 papers	9,395 citations	87843 38 h-index	40954 93 g-index
129 all docs	129 docs citations	129 times ranked	12691 citing authors

#	Article	IF	Citations
1	TLR3 Deficiency in Patients with Herpes Simplex Encephalitis. Science, 2007, 317, 1522-1527.	6.0	970
2	Pyogenic Bacterial Infections in Humans with MyD88 Deficiency. Science, 2008, 321, 691-696.	6.0	844
3	The EUROclass trial: defining subgroups in common variable immunodeficiency. Blood, 2008, 111, 77-85.	0.6	722
4	Diverse stimuli engage different neutrophil extracellular trap pathways. ELife, 2017, 6, .	2.8	598
5	Neutrophils: Between Host Defence, Immune Modulation, and Tissue Injury. PLoS Pathogens, 2015, 11, e1004651.	2.1	532
6	Mutations in STAT3 and IL12RB1 impair the development of human IL-17â€“producing T cells. Journal of Experimental Medicine, 2008, 205, 1543-1550.	4.2	406
7	Selective predisposition to bacterial infections in IRAK-4â€“deficient children: IRAK-4â€“dependent TLRs are otherwise redundant in protective immunity. Journal of Experimental Medicine, 2007, 204, 2407-2422.	4.2	374
8	Clinical Features and Outcome of Patients With IRAK-4 and MyD88 Deficiency. Medicine (United States), 2010, 89, 403-425.	0.4	366
9	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
10	X-linked susceptibility to mycobacteria is caused by mutations in NEMO impairing CD40-dependent IL-12 production. Journal of Experimental Medicine, 2006, 203, 1745-1759.	4.2	264
11	Human TLR-7-, -8-, and -9-Mediated Induction of IFN-Î±/Î² and -Î» Is IRAK-4 Dependent and Redundant for Protective Immunity to Viruses. Immunity, 2005, 23, 465-478.	6.6	245
12	Human genetic and immunological determinants of critical COVID-19 pneumonia. Nature, 2022, 603, 587-598.	13.7	216
13	IRAK-4- and MyD88-Dependent Pathways Are Essential for the Removal of Developing Autoreactive B Cells in Humans. Immunity, 2008, 29, 746-757.	6.6	201
14	A Global Effort to Define the Human Genetics of Protective Immunity to SARS-CoV-2 Infection. Cell, 2020, 181, 1194-1199.	13.5	185
15	Diagnostic approach to microcephaly in childhood: a twoâ€center study and review of the literature. Developmental Medicine and Child Neurology, 2014, 56, 732-741.	1.1	176
16	Experimental and natural infections in <scp>M</scp>y<scp>D</scp>88â€and <scp>IRAK</scp>â€4â€deficient mice and humans. European Journal of Immunology, 2012, 42, 3126-3135.	1.6	169
17	X-linked inhibitor of apoptosis (XIAP) deficiency: The spectrum of presenting manifestations beyond hemophagocytic lymphohistiocytosis. Clinical Immunology, 2013, 149, 133-141.	1.4	158
18	Human Tollâ€like receptorâ€dependent induction of interferons in protective immunity to viruses. Immunological Reviews, 2007, 220, 225-236.	2.8	147

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19	Mutations in AP3D1 associated with immunodeficiency and seizures define a new type of Hermansky-Pudlak syndrome. Blood, 2016, 127, 997-1006.	0.6	142
20	Inherited disorders of human Toll-like receptor signaling: immunological implications. Immunological Reviews, 2005, 203, 10-20.	2.8	129
21	Inborn errors in RNA polymerase III underlie severe varicella zoster virus infections. Journal of Clinical Investigation, 2017, 127, 3543-3556.	3.9	125
22	IRAK4 and NEMO mutations in otherwise healthy children with recurrent invasive pneumococcal disease. Journal of Medical Genetics, 2006, 44, 16-23.	1.5	124
23	The expansion of human T-bet ^{high} CD21 ^{low} B cells is T cell dependent. Science Immunology, 2021, 6, eabh0891.	5.6	82
24	A narrow repertoire of transcriptional modules responsive to pyogenic bacteria is impaired in patients carrying loss-of-function mutations in MYD88 or IRAK4. Nature Immunology, 2014, 15, 1134-1142.	7.0	75
25	Initial presenting manifestations in 16,486 patients with inborn errors of immunity include infections and noninfectious manifestations. Journal of Allergy and Clinical Immunology, 2021, 148, 1332-1341.e5.	1.5	75
26	A Fast Procedure for the Detection of Defects in Toll-like Receptor Signaling. Pediatrics, 2006, 118, 2498-2503.	1.0	71
27	The German National Registry of Primary Immunodeficiencies (2012â€“2017). Frontiers in Immunology, 2019, 10, 1272.	2.2	71
28	Mild COVID-19 despite autoantibodies against type I IFNs in autoimmune polyendocrine syndrome type 1. Journal of Clinical Investigation, 2021, 131, .	3.9	70
29	Shigella sonnei Meningitis Due to Interleukin-1 Receptor–Associated Kinase–4 Deficiency: First Association with a Primary Immune Deficiency. Clinical Infectious Diseases, 2005, 40, 1227-1231.	2.9	66
30	Extended clinical and immunological phenotype and transplant outcome in CD27 and CD70 deficiency. Blood, 2020, 136, 2638-2655.	0.6	64
31	Autoantibodies against cytokines: phenocopies of primary immunodeficiencies?. Human Genetics, 2020, 139, 783-794.	1.8	60
32	Recessive inborn errors of type I IFN immunity in children with COVID-19 pneumonia. Journal of Experimental Medicine, 2022, 219, .	4.2	59
33	Neutrophil oxidative burst activates ATM to regulate cytokine production and apoptosis. Blood, 2015, 126, 2842-2851.	0.6	58
34	From idiopathic infectious diseases to novel primary immunodeficiencies. Journal of Allergy and Clinical Immunology, 2005, 116, 426-430.	1.5	57
35	Autosomal recessive Interleukin-1 receptor-associated kinase 4 deficiency in fourth-degree relatives. Journal of Pediatrics, 2006, 148, 549-551.	0.9	48
36	CD169/SIGLEC1 is expressed on circulating monocytes in COVID-19 and expression levels are associated with disease severity. Infection, 2021, 49, 757-762.	2.3	47

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37	Septicemia without Sepsis: Inherited Disorders of Nuclear Factor-kB-Mediated Inflammation. Clinical Infectious Diseases, 2005, 41, S436-S439.	2.9	45
38	Inherited human IRAK-4 deficiency: an update. Immunologic Research, 2007, 38, 347-352.	1.3	40
39	Hemolysis after Oral Artemisinin Combination Therapy for UncomplicatedPlasmodium falciparumMalaria. Emerging Infectious Diseases, 2016, 22, 1381-1386.	2.0	39
40	Key findings to expedite the diagnosis of hyperâ€IgE syndromes in infants and young children. Pediatric Allergy and Immunology, 2016, 27, 177-184.	1.1	39
41	Infectious and Immunologic Phenotype of MECP2 Duplication Syndrome. Journal of Clinical Immunology, 2015, 35, 168-181.	2.0	35
42	Combined immunodeficiency develops with age in Immunodeficiency-centromeric instability-facial anomalies syndrome 2 (ICF2). Orphanet Journal of Rare Diseases, 2014, 9, 116.	1.2	34
43	Classification of common variable immunodeficiencies using flow cytometry and a memory B-cell functionality assay. Journal of Allergy and Clinical Immunology, 2015, 135, 198-208.e5.	1.5	34
44	Correlation of Secretory Activity of Neutrophils With Genotype in Patients With Familial Mediterranean Fever. Arthritis and Rheumatology, 2016, 68, 3010-3022.	2.9	34
45	Targeted Gene Panel Sequencing for Early-onset Inflammatory Bowel Disease and Chronic Diarrhea. Inflammatory Bowel Diseases, 2017, 23, 2109-2120.	0.9	33
46	Severe infections of Panton-Valentine leukocidin positive Staphylococcus aureus in children. Medicine (United States), 2019, 98, e17185.	0.4	33
47	Incomplete penetrance for isolated congenital asplenia in humans with mutations in translated and untranslated RPSA exons. Proceedings of the National Academy of Sciences of the United States of America, 2018, 115, E8007-E8016.	3.3	31
48	Periodic fever, mild arthralgias, and reversible moderate and severe organ inflammation associated with the V198M mutation in the CIAS1 gene in three German patients - expanding phenotype of CIAS1 related autoinflammatory syndrome. European Journal of Haematology, 2004, 73, 123-127.	1.1	30
49	Diagnostic and Treatment Options for Severe IBD in Female X-CGD Carriers with Non-random X-inactivation. Journal of Crohn's and Colitis, 2016, 10, 112-115.	0.6	29
50	Staphylococcal Pericarditis, and Liver and Paratracheal Abscesses as Presentations in Two New Cases of Interleukin-1 Receptor Associated Kinase 4 Deficiency. Pediatric Infectious Disease Journal, 2008, 27, 170-174.	1.1	29
51	Heritable defects of the human TLR signalling pathways. Journal of Endotoxin Research, 2005, 11, 220-224.	2.5	27
52	From Infectious Diseases to Primary Immunodeficiencies. Immunology and Allergy Clinics of North America, 2008, 28, 235-258.	0.7	25
53	Geneâ€"Dose Effect of MEFV Gain-of-Function Mutations Determines ex vivo Neutrophil Activation in Familial Mediterranean Fever. Frontiers in Immunology, 2020, 11, 716.	2.2	23
54	Outcome of chronic granulomatous disease â€•Conventional treatment vs stem cell transplantation. Pediatric Allergy and Immunology, 2021, 32, 576-585.	1.1	21

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55	Respiratory viral infections in otherwise healthy humans with inherited IRF7 deficiency. Journal of Experimental Medicine, 2022, 219, .	4.2	21
56	Outcomes of mismatched and unrelated donor hematopoietic stem cell transplantation in Fanconi anemia conditioned with chemotherapy only. Annals of Hematology, 2015, 94, 1311-1318.	0.8	19
57	Rubella Virus Infected Macrophages and Neutrophils Define Patterns of Granulomatous Inflammation in Inborn and Acquired Errors of Immunity. Frontiers in Immunology, 2021, 12, 796065.	2.2	19
58	Successful unrelated bone marrow transplantation in a child with chronic granulomatous disease complicated by pulmonary and cerebral granuloma formation. European Journal of Pediatrics, 2007, 166, 785-788.	1.3	18
59	Newborn Screening for SCID and Other Severe Primary Immunodeficiency in the Polish-German Transborder Area: Experience From the First 14 Months of Collaboration. Frontiers in Immunology, 2020, 11, 1948.	2.2	18
60	Early and Rapid Identification of COVID-19 Patients with Neutralizing Type I Interferon Auto-antibodies. Journal of Clinical Immunology, 2022, 42, 1111-1129.	2.0	17
61	Post-exposure prophylaxis for measles with immunoglobulins revised recommendations of the standing committee on vaccination in Germany. Vaccine, 2018, 36, 7916-7922.	1.7	16
62	Adoptive transfer of exÂvivo expanded regulatory T cells improves immune cell engraftment and therapy-refractory chronic GvHD. Molecular Therapy, 2022, 30, 2298-2314.	3.7	16
63	Cross-sectional seroprevalence surveys of SARS-CoV-2 antibodies in children in Germany, June 2020 to May 2021. Nature Communications, 2022, 13, .	5.8	16
64	Benefit assessment of preventive medical check-ups in patients suffering from chronic granulomatous disease (CGD). Journal of Evaluation in Clinical Practice, 2005, 11, 513-521.	0.9	14
65	Use of gene expression profiling to identify candidate genes for pretherapeutic patient classification in acute appendicitis. BJS Open, 2021, 5, .	0.7	14
66	Delayed Onset of (Severe) Combined Immunodeficiency (S)CID (T-B+NK+): Complete IL-7 Receptor Deficiency in a 22 Months Old Girl. Klinische Padiatrie, 2009, 221, 339-343.	0.2	13
67	Hyperbilirubinemia and Rapid Fatal Hepatic Failure in Severe Combined Immunodeficiency Caused by Adenosine Deaminase Deficiency (ADA-SCID). Klinische Padiatrie, 2011, 223, 85-89.	0.2	13
68	Antibiotic Prophylaxis, Immunoglobulin Substitution and Supportive Measures Prevent Infections in MECP2 Duplication Syndrome. Pediatric Infectious Disease Journal, 2018, 37, 466-468.	1.1	13
69	Periorbital infections and conjunctivitis due to Panton-Valentine Leukocidin (PVL) positive Staphylococcus aureus in children. BMC Infectious Diseases, 2018, 18, 371.	1.3	13
70	Screening and treatment for tuberculosis in a cohort of unaccompanied minor refugees in Berlin, Germany. PLoS ONE, 2019, 14, e0216234.	1.1	13
71	Persistent pure red cell aplasia in dicygotic twins with persistent congenital parvovirus B19 infectionâ€"remission following high dose intravenous immunoglobulin. European Journal of Pediatrics, 2014, 173, 1723-1726.	1.3	12
72	Lifeâ€threatening systemic rotavirus infection after vaccination in severe combined immunodeficiency (<scp>SCID</scp>). Pediatric Allergy and Immunology, 2017, 28, 841-843.	1.1	12

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73	IgG subclass deficiencies in children: Facts and fiction. Pediatric Allergy and Immunology, 2017, 28, 521-524.	1.1	12
74	Treatment and management of primary antibody deficiency: German interdisciplinary evidenceâ€based consensus guideline. European Journal of Immunology, 2020, 50, 1432-1446.	1.6	12
75	A Pathogenic Missense Variant in NFKB1 Causes Common Variable Immunodeficiency Due to Detrimental Protein Damage. Frontiers in Immunology, 2021, 12, 621503.	2.2	12
76	Genetic Analysis of a Cohort of 275 Patients with Hyper-IgE Syndromes and/or Chronic Mucocutaneous Candidiasis. Journal of Clinical Immunology, 2021, 41, 1804-1838.	2.0	12
77	Relieving job: Dupilumab in autosomal dominant STAT3 hyper-IgE syndrome. Journal of Allergy and Clinical Immunology: in Practice, 2022, 10, 349-351.e1.	2.0	12
78	T Cell Impairment Is Predictive for a Severe Clinical Course in NEMO Deficiency. Journal of Clinical Immunology, 2020, 40, 421-434.	2.0	10
79	Incidence of SCID in Germany from 2014 to 2015 an ESPED* Survey on Behalf of the API*** Erhebungseinheit fÃ¼r Seltene PÃdiatrische Erkrankungen in Deutschland (German Paediatric) Tj ETQq1 1 0.784314 rgBT /Overlock 10 2020, 40, 708-717.	2.0	9
80	Simple Measurement of IgA Predicts Immunity and Mortality in Ataxia-Telangiectasia. Journal of Clinical Immunology, 2021, 41, 1878-1892.	2.0	9
81	NADPH oxidase is not required for spontaneous and Staphylococcus aureus-induced apoptosis of monocytes. Annals of Hematology, 2004, 83, 206-211.	0.8	8
82	Immunodeficiency with recurrent panlymphocytopenia, impaired maturation of B lymphocytes, impaired interaction of T and B lymphocytes, and impaired integrity of epithelial tissue: A variant of idiopathic CD4+ â€ƒT lymphocytopenia?. Pediatric Allergy and Immunology, 2002, 13, 381-384.	1.1	7
83	Even in Pneumococcal Sepsis CD62L Shedding on Granulocytes Proves to be a Reliable Functional Test for the Diagnosis of Interleukin-1 Receptorâ€“associated Kinase-4 Deficiency. Pediatric Infectious Disease Journal, 2013, 32, 1017-1019.	1.1	7
84	Intravenous Artesunate for Imported Severe Malaria in Children Treated in Four Tertiary Care Centers in Germany. Pediatric Infectious Disease Journal, 2019, 38, e295-e300.	1.1	7
85	Risk Factors for Complicated Lymphadenitis Caused by Nontuberculous Mycobacteria in Children. Emerging Infectious Diseases, 2020, 26, 579-586.	2.0	6
86	Daily subcutaneous administration of human C1 inhibitor in a child with hereditary angioedema type 1. Pediatric Allergy and Immunology, 2016, 27, 223-224.	1.1	5
87	Impaired polysaccharide responsiveness without agammaglobulinaemia in three patients with hypomorphic mutations in Bruton Tyrosine Kinase â€”No detection by newborn screening for primary immunodeficiencies. Scandinavian Journal of Immunology, 2020, 91, e12811.	1.3	5
88	Upfront Enzyme Replacement via Erythrocyte Transfusions for PNP Deficiency. Journal of Clinical Immunology, 2021, 41, 1112-1115.	2.0	5
89	Liver Abscess Complicated by Diaphragm Perforation and Pleural Empyema Leads to the Discovery of Interleukin-1 Receptor-associated Kinase 4 Deficiency. Pediatric Infectious Disease Journal, 2014, 33, 767-769.	1.1	4
90	Systemic treatment with isotretinoin suppresses itraconazole blood level in chronic granulomatous disease. Pediatric Allergy and Immunology, 2014, 25, 405-407.	1.1	4

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91	Scabies, Periorbital Cellulitis and Recurrent Skin Abscesses due to Panton-Valentine Leukocidin-Positive Staphylococcus aureus Mimic Hyper IgE Syndrome in an Infant. Pediatric Infectious Disease Journal, 2017, 36, e347-e348.	1.1	4
92	Postexposure prophylaxis with intravenous immunoglobulin G prevents infants from getting measles. Acta Paediatrica, International Journal of Paediatrics, 2017, 106, 174-177.	0.7	4
93	The Influence of Perioperative Antibiotic Prophylaxis on Wound Infection and on the Colonization of Wound Drains in Patients After Correction of Craniosynostosis. Frontiers in Pediatrics, 2021, 9, 720074.	0.9	4
94	Case Report: Rubella Virus-Induced Cutaneous Granulomas in Two Pediatric Patients With DNA Double Strand Breakage Repair Disorders â€“ Outcome After Hematopoietic Stem Cell Transplantation. Frontiers in Immunology, 2022, 13, .	2.2	4
95	Diagnostisches Vorgehen beim Verdacht auf einen PrimÃren Immundefekt (PID) / Diagnostic approach to suspected primary immunodeficiency. Laboratoriums Medizin, 2009, 33, 179-187.	0.1	3
96	Fatal case of ataxiaâ€telangiectasia complicated by severe epistaxis due to nasal telangiectasia in a 12â€yearâ€old boy. Pediatric Allergy and Immunology, 2017, 28, 711-712.	1.1	3
97	CD70 Deficiency Associated With Chronic Epstein-Barr Virus Infection, Recurrent Airway Infections and Severe Gingivitis in a 24-Year-Old Woman. Frontiers in Immunology, 2020, 11, 1593.	2.2	3
98	Hematopoietic Stem Cell Transplantation Cures Therapy-refractory Aspergillosis in Chronic Granulomatous Disease. Pediatric Infectious Disease Journal, 2021, 40, 649-654.	1.1	3
99	Pyogenic Bacterial Infections in Humans With MyD88 Deficiency. Pediatrics, 2009, 124, S154-S154.	1.0	2
100	Fulminant Endophthalmitis in a Child Caused byNeisseria meningitidisSerogroup C Detected by Specific DNA. Journal of the Pediatric Infectious Diseases Society, 2016, 5, e13-e16.	0.6	2
101	Autoimmune PAP (aPAP) in children. ERJ Open Research, 2022, 8, 00701-2021.	1.1	2
102	Septic arthritis or juvenile idiopathic arthritis â€•the case of a 2 year old boy. Pediatric Allergy and Immunology, 2015, 26, 389-391.	1.1	1
103	Persistent Skin Pouches Following Subcutaneous Immunoglobulin Infusions in a Girl with Immunodeficiency, Bullous Skin Lesions and Melanosis Oculi. Journal of Clinical Immunology, 2017, 37, 505-507.	2.0	1
104	Maintenance of Elective Patient Care at Berlin University Children's Hospital During the COVID-19 Pandemic. Frontiers in Pediatrics, 2021, 9, 694963.	0.9	1
105	F.70. Three New Cases of Interleukin-1 Receptor Associated Kinase 4 (IRAK-4) Deficiency with Novel Presentations: Pericarditis, Occult Liver and Paratracheal Abscesses, Novel Gene Mutations and the Utility of the Neutrophil CD62L (L-selectin) Shedding Assay for Screening for this Immunodeficiency. Clinical Immunology, 2008, 127, S66.	1.4	0
106	Diagnostic approach when suspecting primary immunodeficiency (PID) 1. Laboratoriums Medizin, 2009, 33, -.	0.1	0
107	Genome-wide Innate Immune Responsiveness Profiles of Patients with Inborn Errors of Toll-like Receptor Signaling. Clinical Immunology, 2010, 135, S27-S28.	1.4	0
108	FRI0515â€...Neutrophil-Specific S100A12 Phenotype Correlates to Genotype in Familial Mediterranean Fever. Annals of the Rheumatic Diseases, 2015, 74, 615.1-615.	0.5	0

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109	A structured patient empowerment programme for primary immunodeficiency significantly improves general and health-related quality of life. Central-European Journal of Immunology, 2021, 46, 244-249.	0.4	0
110	Disease entities and microbiological results of 430 patients with non-CF bronchiectasis - Target for new diagnostics and therapies?. , 2016, , .		0