

Harald Renz

List of Publications by Year in descending order

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Version: 2024-02-01

122
papers

6,847
citations

71102

41
h-index

66911

78
g-index

124
all docs

124
docs citations

124
times ranked

9928
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of perinatal immune development on mucosal homeostasis and chronic inflammation. <i>Nature Reviews Immunology</i> , 2012, 12, 9-23.	22.7	432
2	Maternal TLR signaling is required for prenatal asthma protection by the nonpathogenic microbe <i>Acinetobacter lwoffii</i> F78. <i>Journal of Experimental Medicine</i> , 2009, 206, 2869-2877.	8.5	301
3	Allergen-Induced Asthmatic Responses Modified by a GATA3-Specific DNzyme. <i>New England Journal of Medicine</i> , 2015, 372, 1987-1995.	27.0	274
4	<i>Acinetobacter lwoffii</i> and <i>Lactococcus lactis</i> strains isolated from farm cowsheds possess strong allergy-protective properties. <i>Journal of Allergy and Clinical Immunology</i> , 2007, 119, 1514-1521.	2.9	247
5	Treatment of Allergic Airway Inflammation and Hyperresponsiveness by Antisense-Induced Local Blockade of Gata-3 Expression. <i>Journal of Experimental Medicine</i> , 2001, 193, 1247-1260.	8.5	238
6	The gut microbiota and inflammatory noncommunicable diseases: Associations and potentials for gut microbiota therapies. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 3-13.	2.9	232
7	Maturation of the gut microbiome during the first year of life contributes to the protective farm effect on childhood asthma. <i>Nature Medicine</i> , 2020, 26, 1766-1775.	30.7	202
8	Epigenetics and allergy: from basic mechanisms to clinical applications. <i>Epigenomics</i> , 2017, 9, 539-571.	2.1	201
9	Phenotypes of Atopic Dermatitis Depending on the Timing of Onset and Progression in Childhood. <i>JAMA Pediatrics</i> , 2017, 171, 655.	6.2	197
10	The Microbial Metabolite Butyrate Induces Expression of Th1-Associated Factors in CD4+ T Cells. <i>Frontiers in Immunology</i> , 2017, 8, 1036.	4.8	193
11	Epigenetic regulation in murine offspring as a novel mechanism for transmaternal asthma protection induced by microbes. <i>Journal of Allergy and Clinical Immunology</i> , 2011, 128, 618-625.e7.	2.9	157
12	An exposome perspective: Early-life events and immune development in a changing world. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 24-40.	2.9	149
13	Gene-environment interactions in chronic inflammatory disease. <i>Nature Immunology</i> , 2011, 12, 273-277.	14.5	148
14	Early life microbial exposures and allergy risks: opportunities for prevention. <i>Nature Reviews Immunology</i> , 2021, 21, 177-191.	22.7	146
15	Histone modifications and their role in epigenetics of atopy and allergic diseases. <i>Allergy, Asthma and Clinical Immunology</i> , 2018, 14, 39.	2.0	141
16	DNA methylation of TH1/TH2 cytokine genes affects sensitization and progress of experimental asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2012, 129, 1602-1610.e6.	2.9	117
17	Food allergy across the globe. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 1347-1364.	2.9	115
18	Perspectives in allergen immunotherapy: 2019 and beyond. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 3-25.	5.7	113

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19	Asthma-associated risk for COVID-19 development. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 1295-1301.	2.9	105
20	EAACI position paper: Influence of dietary fatty acids on asthma, food allergy, and atopic dermatitis. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 1429-1444.	5.7	103
21	Neurobiology of the major psychoses: a translational perspective on brain structure and function—the FOR2107 consortium. <i>European Archives of Psychiatry and Clinical Neuroscience</i> , 2019, 269, 949-962.	3.2	103
22	EAACI position paper on diet diversity in pregnancy, infancy and childhood: Novel concepts and implications for studies in allergy and asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 497-523.	5.7	101
23	Spotlight on microRNAs in allergy and asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2021, 76, 1661-1678.	5.7	98
24	Obesity and asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 685-693.	2.9	96
25	Update on epigenetics in allergic disease. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 15-24.	2.9	95
26	ω-3 fatty acids contribute to the asthma-protective effect of unprocessed cow's milk. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 1699-1706.e13.	2.9	90
27	The neonatal window of opportunity—early priming for life. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 1212-1214.	2.9	87
28	Cord blood allergen-specific IgE is associated with reduced IFN- γ production by cord blood cells: The Protection against Allergy—Study in Rural Environments (PASTURE) study. <i>Journal of Allergy and Clinical Immunology</i> , 2008, 122, 711-716.	2.9	84
29	SARS-CoV-2 antibody testing—questions to be asked. <i>Journal of Allergy and Clinical Immunology</i> , 2020, 146, 35-43.	2.9	82
30	Moisture Damage and Asthma: A Birth Cohort Study. <i>Pediatrics</i> , 2015, 135, e598-e606.	2.1	77
31	Laboratory characteristics of patients infected with the novel SARS-CoV-2 virus. <i>Journal of Infection</i> , 2020, 81, 205-212.	3.3	77
32	Latent class analysis reveals clinically relevant atopy phenotypes in 2 birth cohorts. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 1935-1945.e12.	2.9	76
33	The Canmore Declaration: Statement of Principles for Planetary Health. <i>Challenges</i> , 2018, 9, 31.	1.7	70
34	Biologic Therapy and Novel Molecular Targets of Severe Asthma. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2017, 5, 909-916.	3.8	69
35	Rectal Delivery of a DNzyme That Specifically Blocks the Transcription Factor GATA3 and Reduces Colitis in Mice. <i>Gastroenterology</i> , 2017, 152, 176-192.e5.	1.3	66
36	Antisense molecules: A new class of drugs. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 1334-1346.	2.9	56

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37	The Immunological Basis of the Hygiene Hypothesis. , 2006, 91, 30-48.		53
38	The role of epigenetics in allergy and asthma development. Current Opinion in Allergy and Clinical Immunology, 2020, 20, 48-55.	2.3	49
39	The role of PKC ζ in cord blood T-cell maturation towards Th1 cytokine profile and its epigenetic regulation by fish oil. Bioscience Reports, 2017, 37, .	2.4	48
40	Safety and tolerability of a novel inhaled GATA3 mRNA targeting DNAzyme in patients with TH2-driven asthma. Journal of Allergy and Clinical Immunology, 2015, 136, 797-800.	2.9	47
41	Multi-platform Affinity Proteomics Identify Proteins Linked to Metastasis and Immune Suppression in Ovarian Cancer Plasma. Frontiers in Oncology, 2019, 9, 1150.	2.8	47
42	Exposure to nonmicrobial N-glycolylneuraminic acid protects farmers' children against airway inflammation and colitis. Journal of Allergy and Clinical Immunology, 2018, 141, 382-390.e7.	2.9	44
43	Frequency of serological non-responders and false-negative RT-PCR results in SARS-CoV-2 testing: a population-based study. Clinical Chemistry and Laboratory Medicine, 2020, 58, 2131-2140.	2.3	44
44	Integrating clinical decision support systems for pharmacogenomic testing into clinical routine - a scoping review of designs of user-system interactions in recent system development. BMC Medical Informatics and Decision Making, 2017, 17, 81.	3.0	43
45	Atopic Dermatitis: Collegium Internationale Allergologicum (CIA) Update 2019. International Archives of Allergy and Immunology, 2019, 178, 207-218.	2.1	42
46	State-of-the-art in marketed adjuvants and formulations in Allergen Immunotherapy: A position paper of the European Academy of Allergy and Clinical Immunology (EAACI). Allergy: European Journal of Allergy and Clinical Immunology, 2020, 75, 746-760.	5.7	42
47	Histone Acetylation of Immune Regulatory Genes in Human Placenta in Association with Maternal Intake of Olive Oil and Fish Consumption. International Journal of Molecular Sciences, 2019, 20, 1060.	4.1	41
48	Raw Cow's Milk Reduces Allergic Symptoms in a Murine Model for Food Allergy – A Potential Role For Epigenetic Modifications. Nutrients, 2019, 11, 1721.	4.1	40
49	New concepts in asthma: clinical phenotypes and pathophysiological mechanisms. Drug Discovery Today, 2017, 22, 388-396.	6.4	39
50	Diagnostic and analytical performance of a screening panel for allergy. Clinical Chemistry and Laboratory Medicine, 2005, 43, 963-6.	2.3	37
51	Deciphering the complex interplay between pancreatic cancer, diabetes mellitus subtypes and obesity/BMI through causal inference and mediation analyses. Gut, 2021, 70, gutjnl-2019-319990.	12.1	36
52	SARS-CoV-2 infection and COVID-19 in asthmatics: a complex relationship. Nature Reviews Immunology, 2021, 21, 202-203.	22.7	36
53	Childhood allergic asthma is associated with increased IL-13 and FOXP3 histone acetylation. Journal of Allergy and Clinical Immunology, 2015, 136, 200-202.	2.9	35
54	Current concepts in chronic inflammatory diseases: Interactions between microbes, cellular metabolism, and inflammation. Journal of Allergy and Clinical Immunology, 2016, 138, 47-56.	2.9	35

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55	Characterization of a Pan-Immunoglobulin Assay Quantifying Antibodies Directed against the Receptor Binding Domain of the SARS-CoV-2 S1-Subunit of the Spike Protein: A Population-Based Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 3989.	2.4	35
56	Epigenetics in immune development and in allergic and autoimmune diseases. <i>Journal of Reproductive Immunology</i> , 2014, 104-105, 43-48.	1.9	34
57	Regulatory Immune Cells in Idiopathic Pulmonary Fibrosis: Friends or Foes?. <i>Frontiers in Immunology</i> , 2021, 12, 663203.	4.8	33
58	Respiratory viral co-infections in patients with COVID-19 and associated outcomes: A systematic review and meta-analysis. <i>Reviews in Medical Virology</i> , 2023, 33, .	8.3	33
59	GATA3-specific DNase III: A novel approach for stratified asthma therapy. <i>European Journal of Immunology</i> , 2017, 47, 22-30.	2.9	32
60	Diagnostic Accuracy of Holotranscobalamin, Vitamin B12, Methylmalonic Acid, and Homocysteine in Detecting B12 Deficiency in a Large, Mixed Patient Population. <i>Disease Markers</i> , 2020, 2020, 1-11.	1.3	32
61	Epigenetic Regulation in Early Childhood: A Miniaturized and Validated Method to Assess Histone Acetylation. <i>International Archives of Allergy and Immunology</i> , 2015, 168, 173-181.	2.1	31
62	Microbiota epitope similarity either dampens or enhances the immunogenicity of disease-associated antigenic epitopes. <i>PLoS ONE</i> , 2018, 13, e0196551.	2.5	31
63	The protective effect of cheese consumption at 18 months on allergic diseases in the first 6 years. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 788-798.	5.7	31
64	Recent developments in epigenetics of pediatric asthma. <i>Current Opinion in Pediatrics</i> , 2016, 28, 754-763.	2.0	30
65	A GATA3-specific DNase III attenuates sputum eosinophilia in eosinophilic COPD patients: a feasibility randomized clinical trial. <i>Respiratory Research</i> , 2018, 19, 55.	3.6	29
66	Compartmental and Temporal Dynamics of Chronic Inflammation and Airway Remodelling in a Chronic Asthma Mouse Model. <i>PLoS ONE</i> , 2014, 9, e85839.	2.5	27
67	Influenza-derived peptides cross-react with allergens and provide asthma protection. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 804-814.	2.9	27
68	Development of drug delivery systems for the dermal application of therapeutic DNase III. <i>International Journal of Pharmaceutics</i> , 2012, 431, 61-69.	5.2	23
69	Decreased Histone Acetylation Levels at Th1 and Regulatory Loci after Induction of Food Allergy. <i>Nutrients</i> , 2020, 12, 3193.	4.1	23
70	T2-high asthma phenotypes across lifespan. <i>European Respiratory Journal</i> , 2022, 60, 2102288.	6.7	23
71	Constitutive immune activity promotes JNK- and FoxO-dependent remodeling of <i>Drosophila</i> airways. <i>Cell Reports</i> , 2021, 35, 108956.	6.4	22
72	Proposal of 0.5 mg of protein/100 g of processed food as threshold for voluntary declaration of food allergen traces in processed food: A first step in an initiative to better inform patients and avoid fatal allergic reactions: A GA2LEN position paper. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2022, 77, 1736-1750.	5.7	21

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73	Epigenetic Modifications in Placenta are Associated with the Child's Sensitization to Allergens. <i>BioMed Research International</i> , 2019, 2019, 1-11.	1.9	20
74	EDTA-Anticoagulated Whole Blood for SARS-CoV-2 Antibody Testing by Electrochemiluminescence Immunoassay (ECLIA) and Enzyme-Linked Immunosorbent Assay (ELISA). <i>Diagnostics</i> , 2020, 10, 593.	2.6	19
75	Distinct immune phenotypes in infants developing asthma during childhood. <i>Science Translational Medicine</i> , 2020, 12, .	12.4	19
76	Microbial diversity in homes and the risk of allergic rhinitis and inhalant atopy in two European birth cohorts. <i>Environmental Research</i> , 2021, 196, 110835.	7.5	19
77	Sustained SARS-CoV-2 nucleocapsid antibody levels in nonsevere COVID-19: a population-based study. <i>Clinical Chemistry and Laboratory Medicine</i> , 2021, 59, e49-e51.	2.3	18
78	Short-Chain Fatty Acids Augment Differentiation and Function of Human Induced Regulatory T Cells. <i>International Journal of Molecular Sciences</i> , 2022, 23, 5740.	4.1	18
79	Component-Resolved Diagnosis in Allergic Rhinitis and Asthma. <i>journal of applied laboratory medicine</i> , The, 2019, 3, 883-898.	1.3	17
80	Characteristics of Three Different Chemiluminescence Assays for Testing for SARS-CoV-2 Antibodies. <i>Disease Markers</i> , 2021, 2021, 1-13.	1.3	17
81	Development of a protective dermal drug delivery system for therapeutic DNazymes. <i>International Journal of Pharmaceutics</i> , 2015, 479, 150-158.	5.2	16
82	The potential of recombinant antigens ESAT-6, MPT63 and mig for specific discrimination of <i>Mycobacterium tuberculosis</i> and <i>M. avium</i> infection. <i>European Journal of Pediatrics</i> , 2003, 162, 534-536.	2.7	15
83	Blood eosinophils predict therapeutic effects of a GATA3-specific DNzyme in asthma patients. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 625-628.e5.	2.9	15
84	Temporal Course of SARS-CoV-2 Antibody Positivity in Patients with COVID-19 following the First Clinical Presentation. <i>BioMed Research International</i> , 2020, 2020, 1-11.	1.9	15
85	Allergen shedding in human milk: Could it be key for immune system education and allergy prevention?. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 679-688.	2.9	15
86	Investigation of the use of a sensor bracelet for the presymptomatic detection of changes in physiological parameters related to COVID-19: an interim analysis of a prospective cohort study (COVI-GAPP). <i>BMJ Open</i> , 2022, 12, e058274.	1.9	15
87	Myeloid-Derived Suppressor Cells Dampen Airway Inflammation Through Prostaglandin E2 Receptor 4. <i>Frontiers in Immunology</i> , 2021, 12, 695933.	4.8	13
88	Immune Responsiveness to LPS Determines Risk of Childhood Wheeze and Asthma in 17q21 Risk Allele Carriers. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2022, 205, 641-650.	5.6	13
89	Plasma protein biomarkers for early detection of pancreatic ductal adenocarcinoma. <i>International Journal of Cancer</i> , 2021, 148, 2048-2058.	5.1	12
90	œMolecular extractsœ for allergy diagnostics and therapy. <i>Pediatric Allergy and Immunology</i> , 2019, 30, 55-58.	2.6	11

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91	Determination of red blood cell fatty acid profiles: Rapid and high-confident analysis by chemical ionization-gas chromatography-tandem mass spectrometry. <i>Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences</i> , 2017, 1040, 1-7.	2.3	10
92	IgE Levels to Ascaris and House Dust Mite Allergens Are Associated With Increased Histone Acetylation at Key Type-2 Immune Genes. <i>Frontiers in Immunology</i> , 2020, 11, 756.	4.8	10
93	A systems immunology approach identifies the collective impact of 5 miRs in Th2 inflammation. <i>JCI Insight</i> , 2018, 3, .	5.0	10
94	Bioavailability and Allergoprotective Capacity of Milk-Associated Conjugated Linoleic Acid in a Murine Model of Allergic Airway Inflammation. <i>International Archives of Allergy and Immunology</i> , 2014, 163, 234-242.	2.1	9
95	Dental Biofilm and Saliva Microbiome and Its Interplay with Pediatric Allergies. <i>Microorganisms</i> , 2021, 9, 1330.	3.6	9
96	Degradation and protection of DNAzymes on human skin. <i>European Journal of Pharmaceutics and Biopharmaceutics</i> , 2016, 107, 80-87.	4.3	8
97	Development and Regulation of Immune Responses to Food Antigens in Pre- and Postnatal Life. <i>Nestle Nutrition Workshop Series Paediatric Programme</i> , 2009, 64, 139-155.	1.5	7
98	Impact of increasing treatment rates on cost-effectiveness of subcutaneous immunotherapy (SCIT) in respiratory allergy: a decision analytic modelling approach. <i>European Journal of Health Economics</i> , 2018, 19, 1229-1242.	2.8	7
99	Early age exposure to moisture and mould is related to FeNO at the age of 6Âyears. <i>Pediatric Allergy and Immunology</i> , 2021, 32, 1226-1237.	2.6	7
100	Efficacy of T-cell transcription factorâ€“specific DNAzymes in murine skin inflammation models. <i>Journal of Allergy and Clinical Immunology</i> , 2016, 137, 644-647.e8.	2.9	6
101	Autophagy: Nobel Prize 2016 and allergy and asthma research. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 140, 1548-1549.	2.9	6
102	Advances in mechanisms of allergic disease in 2017. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1730-1739.	2.9	6
103	Epidemiology and management of asthma and atopic dermatitis in Sub-Saharan Africa. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 148, 1378-1386.	2.9	6
104	Advances in inÂvitro diagnostics in allergy, asthma, and immunology in 2012. <i>Journal of Allergy and Clinical Immunology</i> , 2013, 132, 1287-1292.	2.9	5
105	Enhanced T helper 1 and 2 cytokine responses at birth associate with lower risk of middle ear infections in infancy. <i>Pediatric Allergy and Immunology</i> , 2017, 28, 53-59.	2.6	5
106	Reference Intervals for Platelet Counts in the Elderly: Results from the Prospective SENIORLAB Study. <i>Journal of Clinical Medicine</i> , 2020, 9, 2856.	2.4	5
107	Thrombin converts singlet oxygen (1O2)-oxidized fibrinogen into a soluble t-PA cofactor. <i>Annals of Hematology</i> , 2001, 80, 189-194.	1.8	4
108	Physiology and pathology of eosinophils: Recent developments. <i>Scandinavian Journal of Immunology</i> , 2021, 93, e13032.	2.7	4

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109	Asthmatic farm children show increased CD3+CD8low T-cells compared to non-asthmatic farm children. <i>Clinical Immunology</i> , 2017, 183, 285-292.	3.2	3
110	Landmark papers in our journal: Articles I to III of the series describing the discovery of IgE by the Ishizakas. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 1163-1165.	2.9	3
111	The Advance of Personalized and Stratified Therapies in Bronchial Asthma: Phenotypes - Endotypes - Biomarkers. <i>Electronic Journal of the International Federation of Clinical Chemistry and Laboratory Medicine</i> , 2013, 24, 113-25.	0.7	3
112	The biology of T-Cells in allergy and asthma: Beyond the TH1/TH2 concept. <i>Pediatric Pulmonology</i> , 2004, 37, 40-41.	2.0	2
113	Effects of interference with GATA3 expression by target-specific DNzyme treatment on disease progression in a subacute oxazolone-induced mouse model of atopic dermatitis. <i>Clinical and Translational Allergy</i> , 2015, 5, O21.	3.2	2
114	DNA methylation and a biomarker panel to predict asthma development. <i>Journal of Allergy and Clinical Immunology</i> , 2019, 144, 49-50.	2.9	2
115	Reference intervals for platelet indices in seniors and frequency of abnormal results in a population-based setting: a comparison between directly and indirectly estimated reference intervals. <i>Journal of Laboratory Medicine</i> , 2021, 45, 125-129.	1.1	2
116	Failure of the holotranscobalamin assay in vitamin B12-deficient patients. <i>Laboratoriums Medizin</i> , 2018, 42, 141-147.	0.6	1
117	Precision medicine reaching out to the patients in allergology – a German-Japanese workshop report. <i>Allergologie Select</i> , 2021, 5, 162-179.	3.1	1
118	Prenatal influences on the development of allergy and asthma TH1/TH2 balance. <i>Pediatric Pulmonology</i> , 2004, 37, 206-207.	2.0	0
119	In-vitro Allergiediagnostik. <i>Laboratoriums Medizin</i> , 2015, 39, .	0.6	0
120	Draft Genome Sequence and Complete Plasmid Sequence of <i>Acinetobacter lwoffii</i> F78, an Isolate with Strong Allergy-Protective Properties. <i>Genome Announcements</i> , 2016, 4, .	0.8	0
121	In-vitro allergy diagnostics. <i>Laboratoriums Medizin</i> , 2016, 39, .	0.6	0
122	Treatment of Femoral Head Osteonecrosis with Ozone Therapy: Pilot Trial of a New Therapeutic Approach.. <i>Pain Physician</i> , 2022, 25, E43-E54.	0.4	0