

# Joerg Mattes

## List of Publications by Year in descending order

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95  
papers

5,864  
citations

87888

38  
h-index

74163

75  
g-index

95  
all docs

95  
docs citations

95  
times ranked

7559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Evidence that asthma is a developmental origin disease influenced by maternal diet and bacterial metabolites. <i>Nature Communications</i> , 2015, 6, 7320.	12.8	683
2	Antagonism of microRNA-126 suppresses the effector function of T <sub>H</sub> 2 cells and the development of allergic airways disease. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2009, 106, 18704-18709.	7.1	401
3	Integrated Signals Between IL-13, IL-4, and IL-5 Regulate Airways Hyperreactivity. <i>Journal of Immunology</i> , 2000, 165, 108-113.	0.8	292
4	Intrinsic Defect in T Cell Production of Interleukin (IL)-13 in the Absence of Both IL-5 and Eotaxin Precludes the Development of Eosinophilia and Airways Hyperreactivity in Experimental Asthma. <i>Journal of Experimental Medicine</i> , 2002, 195, 1433-1444.	8.5	250
5	High-flow warm humidified oxygen versus standard low-flow nasal cannula oxygen for moderate bronchiolitis (HFWHO RCT): an open, phase 4, randomised controlled trial. <i>Lancet, The</i> , 2017, 389, 930-939.	13.7	220
6	Immunotherapy of Cytotoxic T Cell-resistant Tumors by T Helper 2 Cells. <i>Journal of Experimental Medicine</i> , 2003, 197, 387-393.	8.5	213
7	Elemental signals regulating eosinophil accumulation in the lung. <i>Immunological Reviews</i> , 2001, 179, 173-181.	6.0	207
8	Eosinophils Promote Allergic Disease of the Lung by Regulating CD4 <sup>+</sup> Th2 Lymphocyte Function. <i>Journal of Immunology</i> , 2001, 167, 3146-3155.	0.8	196
9	MicroRNA-21 drives severe, steroid-insensitive experimental asthma by amplifying phosphoinositide 3-kinase-mediated suppression of histone deacetylase 2. <i>Journal of Allergy and Clinical Immunology</i> , 2017, 139, 519-532.	2.9	176
10	Transgenic Expression of Bean $\alpha$ -Amylase Inhibitor in Peas Results in Altered Structure and Immunogenicity. <i>Journal of Agricultural and Food Chemistry</i> , 2005, 53, 9023-9030.	5.2	161
11	Toll/IL-1 Signaling Is Critical for House Dust Mite-specific Th1 and Th2 Responses. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2009, 179, 883-893.	5.6	148
12	IL-13 Induces Airways Hyperreactivity Independently of the IL-4R $\alpha$ Chain in the Allergic Lung. <i>Journal of Immunology</i> , 2001, 167, 1683-1692.	0.8	137
13	The E3 ubiquitin ligase midline 1 promotes allergen and rhinovirus-induced asthma by inhibiting protein phosphatase 2A activity. <i>Nature Medicine</i> , 2013, 19, 232-237.	30.7	127
14	Does the Sibling Effect Have Its Origin In Utero? Investigating Birth Order, Cord Blood Immunoglobulin E Concentration, and Allergic Sensitization at Age 4 Years. <i>American Journal of Epidemiology</i> , 2001, 154, 909-915.	3.4	120
15	Polymorphisms in the IL 18 gene are associated with specific sensitization to common allergens and allergic rhinitis. <i>Journal of Allergy and Clinical Immunology</i> , 2003, 111, 117-122.	2.9	119
16	Critical link between TRAIL and CCL20 for the activation of TH2 cells and the expression of allergic airway disease. <i>Nature Medicine</i> , 2007, 13, 1308-1315.	30.7	112
17	Modeling T <sub>H</sub> 2 responses and airway inflammation to understand fundamental mechanisms regulating the pathogenesis of asthma. <i>Immunological Reviews</i> , 2017, 278, 20-40.	6.0	107
18	The emerging role of microRNAs in regulating immune and inflammatory responses in the lung. <i>Immunological Reviews</i> , 2013, 253, 198-215.	6.0	97

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19	NO in exhaled air is correlated with markers of eosinophilic airway inflammation in corticosteroid-dependent childhood asthma. <i>European Respiratory Journal</i> , 1999, 13, 1391-5.	6.7	97
20	Toll-like receptor 7 governs interferon and inflammatory responses to rhinovirus and is suppressed by IL-5-induced lung eosinophilia. <i>Thorax</i> , 2015, 70, 854-861.	5.6	90
21	Environmental bacteria and childhood asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2012, 67, 1565-1571.	5.7	87
22	MicroRNA-9 regulates steroid-resistant airway hyperresponsiveness by reducing protein phosphatase 2A activity. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 462-473.	2.9	84
23	Active Vaccination Against IL-5 Bypasses Immunological Tolerance and Ameliorates Experimental Asthma. <i>Journal of Immunology</i> , 2001, 167, 3792-3799.	0.8	79
24	Regulation of MicroRNA by Antagomirs. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2007, 36, 8-12.	2.9	76
25	A pathogenic role for tumor necrosis factor-related apoptosis-inducing ligand in chronic obstructive pulmonary disease. <i>Mucosal Immunology</i> , 2016, 9, 859-872.	6.0	63
26	Antagonism of miR-328 Increases the Antimicrobial Function of Macrophages and Neutrophils and Rapid Clearance of Non-typeable <i>Haemophilus Influenzae</i> (NTHi) from Infected Lung. <i>PLoS Pathogens</i> , 2015, 11, e1004549.	4.7	62
27	Managing Asthma in Pregnancy (MAP) trial: FENO levels and childhood asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 142, 1765-1772.e4.	2.9	60
28	Differential DNA methylation profiles of infants exposed to maternal asthma during pregnancy. <i>Pediatric Pulmonology</i> , 2014, 49, 852-862.	2.0	59
29	Elevated IL-33 expression is associated with pediatric eosinophilic esophagitis, and exogenous IL-33 promotes eosinophilic esophagitis development in mice. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 310, G13-G25.	3.4	55
30	Constitutive production of IL-13 promotes early-life <i>Chlamydia</i> respiratory infection and allergic airway disease. <i>Mucosal Immunology</i> , 2013, 6, 569-579.	6.0	53
31	Emerging role of tumour necrosis factor-related apoptosis-inducing ligand (TRAIL) as a key regulator of inflammatory responses. <i>Clinical and Experimental Pharmacology and Physiology</i> , 2009, 36, 1049-1053.	1.9	51
32	Targeting translational control as a novel way to treat inflammatory disease: the emerging role of MicroRNAs. <i>Clinical and Experimental Allergy</i> , 2013, 43, 981-999.	2.9	51
33	Eosinophil degranulation in the allergic lung of mice primarily occurs in the airway lumen. <i>Journal of Leukocyte Biology</i> , 2004, 75, 1001-1009.	3.3	49
34	Tumor necrosis factor-related apoptosis-inducing ligand translates neonatal respiratory infection into chronic lung disease. <i>Mucosal Immunology</i> , 2014, 7, 478-488.	6.0	45
35	The Breathing for Life Trial: a randomised controlled trial of fractional exhaled nitric oxide (FENO)-based management of asthma during pregnancy and its impact on perinatal outcomes and infant and childhood respiratory health. <i>BMC Pregnancy and Childbirth</i> , 2016, 16, 111.	2.4	45
36	Circadian Variation of Exhaled Nitric Oxide and Urinary Eosinophil Protein X in Asthmatic and Healthy Children. <i>Pediatric Research</i> , 2002, 51, 190-194.	2.3	42

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37	Prenatal origins of bronchiolitis: protective effect of optimised asthma management during pregnancy: Table A1. <i>Thorax</i> , 2014, 69, 383-384.	5.6	42
38	Obesity promotes prolonged ovalbumin-induced airway inflammation modulating T helper type 1 (Th1), Th2 and Th17 immune responses in BALB/c mice. <i>Clinical and Experimental Immunology</i> , 2017, 189, 47-59.	2.6	40
39	Long- and medium-term ozone effects on lung growth including a broad spectrum of exposure. <i>European Respiratory Journal</i> , 2004, 23, 292-299.	6.7	39
40	CCL7 and IRF-7 Mediate Hallmark Inflammatory and IFN Responses following Rhinovirus 1B Infection. <i>Journal of Immunology</i> , 2015, 194, 4924-4930.	0.8	39
41	Emerging role of microRNAs in disease pathogenesis and strategies for therapeutic modulation. <i>Current Opinion in Molecular Therapeutics</i> , 2008, 10, 150-7.	2.8	34
42	Tumor Necrosis Factor-Related Apoptosis-Inducing Ligand Regulates Hallmark Features of Airways Remodeling in Allergic Airways Disease. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2014, 51, 86-93.	2.9	33
43	TNF-related apoptosis-inducing ligand (TRAIL) regulates midline-1, thymic stromal lymphopoietin, inflammation, and remodeling in experimental eosinophilic esophagitis. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 136, 971-982.	2.9	33
44	Salmeterol attenuates chemotactic responses in rhinovirus-induced exacerbation of allergic airways disease by modulating protein phosphatase 2A. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 1720-1727.	2.9	32
45	High interleukin-13 production by phytohaemagglutinin- and Der p 1-stimulated cord blood mononuclear cells is associated with the subsequent development of atopic dermatitis at the age of 3 years. <i>Clinical and Experimental Allergy</i> , 2003, 33, 1537-1543.	2.9	31
46	A Critical Role for the CXCL3/CXCL5/CXCR2 Neutrophilic Chemotactic Axis in the Regulation of Type 2 Responses in a Model of Rhinoviral-Induced Asthma Exacerbation. <i>Journal of Immunology</i> , 2020, 205, 2468-2478.	0.8	31
47	Forthcoming Meetings. <i>Clinical and Experimental Allergy</i> , 2013, 43, 1090-1090.	2.9	29
48	New reference ranges for interpreting forced expiratory manoeuvres in infants and implications for clinical interpretation: a multicentre collaboration. <i>Thorax</i> , 2016, 71, 276-283.	5.6	29
49	High-fat diet-induced obesity worsens TH2 immune response and immunopathologic characteristics in murine model of eosinophilic oesophagitis. <i>Clinical and Experimental Allergy</i> , 2020, 50, 244-255.	2.9	29
50	Trends in asthma self-management skills and inhaled corticosteroid use during pregnancy and postpartum from 2004 to 2017. <i>Journal of Asthma</i> , 2019, 56, 594-602.	1.7	24
51	Circadian variation of urinary eosinophil protein X in asthmatic and healthy children. <i>Clinical and Experimental Allergy</i> , 1999, 29, 1497-1501.	2.9	23
52	Absence of Toll-IL-1 Receptor 8/Single Immunoglobulin IL-1 Receptor-Related Molecule Reduces House Dust Mite-Induced Allergic Airway Inflammation in Mice. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2013, 49, 481-490.	2.9	23
53	Maternal asthma, breastfeeding, and respiratory outcomes in the first year of life. <i>Pediatric Pulmonology</i> , 2020, 55, 1690-1696.	2.0	22
54	MicroRNA: Potential biomarkers and therapeutic targets for allergic asthma?. <i>Annals of Medicine</i> , 2014, 46, 633-639.	3.8	21

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55	TRAIL signals through the ubiquitin ligase MID1 to promote pulmonary fibrosis. <i>BMC Pulmonary Medicine</i> , 2019, 19, 31.	2.0	20
56	Interleukin-18 enhances the production of interferon-gamma (IFN- $\gamma$ ) by allergen-specific and unspecific stimulated cord blood mononuclear cells. <i>Cytokine</i> , 2004, 25, 172-178.	3.2	19
57	Epigenetic changes associated with disease progression in a mouse model of childhood allergic asthma. <i>DMM Disease Models and Mechanisms</i> , 2013, 6, 993-1000.	2.4	18
58	Respiratory viral infections in pregnant women with asthma are associated with wheezing in the first 12 months of life. <i>Pediatric Allergy and Immunology</i> , 2014, 25, 151-158.	2.6	18
59	Vitamin D status in pregnant women with asthma and its association with adverse respiratory outcomes during infancy. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 1820-1825.	1.5	18
60	Inhibiting AKT Phosphorylation Employing Non-Cytotoxic Anthraquinones Ameliorates TH2 Mediated Allergic Airways Disease and Rhinovirus Exacerbation. <i>PLoS ONE</i> , 2013, 8, e79565.	2.5	17
61	miR-122 promotes virus-induced lung disease by targeting SOCS1. <i>JCI Insight</i> , 2021, 6, .	5.0	17
62	Prevention and Treatment of Smoking and Tobacco Use During Pregnancy in Selected Indigenous Communities in High-Income Countries of the United States, Canada, Australia, and New Zealand. <i>Chest</i> , 2017, 152, 853-866.	0.8	16
63	The effects of increasing fruit and vegetable intake in children with asthma: A randomized controlled trial. <i>Clinical and Experimental Allergy</i> , 2021, 51, 1144-1156.	2.9	16
64	Exposure to Stress and Air Pollution from Bushfires during Pregnancy: Could Epigenetic Changes Explain Effects on the Offspring?. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7465.	2.6	15
65	Enhancing tristetraprolin activity reduces the severity of cigarette smoke-induced experimental chronic obstructive pulmonary disease. <i>Clinical and Translational Immunology</i> , 2019, 8, e01084.	3.8	14
66	How Maternal BMI Modifies the Impact of Personalized Asthma Management in Pregnancy. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 219-228.e3.	3.8	14
67	The fraction of exhaled nitric oxide improves prediction of clinical allergic reaction to peanut challenge in children. <i>Clinical and Experimental Allergy</i> , 2014, 44, 371-380.	2.9	13
68	The early origins of COPD in severe asthma: the one thing that leads to another or the two things that come together?. <i>Thorax</i> , 2014, 69, 789-790.	5.6	13
69	Association between active tobacco use during pregnancy and infant respiratory health: a systematic review and meta-analysis. <i>BMJ Open</i> , 2020, 10, e037819.	1.9	13
70	Maternal asthma is associated with reduced lung function in male infants in a combined analysis of the BLT and BILD cohorts. <i>Thorax</i> , 2021, 76, 996-1001.	5.6	13
71	Factors Associated with Asthma Exacerbations During Pregnancy. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 4343-4352.e4.	3.8	13
72	TRAIL deficiency and PP2A activation with salmeterol ameliorates egg allergen-driven eosinophilic esophagitis. <i>American Journal of Physiology - Renal Physiology</i> , 2016, 311, G998-G1008.	3.4	11

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73	Clinical and lung function outcomes in a cohort of children with severe asthma. <i>BMC Pulmonary Medicine</i> , 2020, 20, 66.	2.0	11
74	Pulmonary function in children of school age is related to the number of siblings in their family. , 1999, 28, 414-417.		10
75	Exercise capacity is not decreased in children who have undergone lung resection early in life for congenital thoracic malformations compared to healthy age-matched children. <i>Pediatric Pulmonology</i> , 2017, 52, 1340-1348.	2.0	10
76	Observational study of mental health in asthmatic women during the prenatal and postnatal periods. <i>Journal of Asthma</i> , 2020, 57, 829-841.	1.7	10
77	Factors Associated with Nonadherence to Inhaled Corticosteroids for Asthma During Pregnancy. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 1242-1252.e1.	3.8	9
78	Children With Asthma Have Impaired Innate Immunity and Increased Numbers of Type 2 Innate Lymphoid Cells Compared With Healthy Controls. <i>Frontiers in Immunology</i> , 2021, 12, 664668.	4.8	8
79	Development of a Maternal and Child mHealth Intervention With Aboriginal and Torres Strait Islander Mothers: Co-design Approach. <i>JMIR Formative Research</i> , 2022, 6, e33541.	1.4	7
80	Ventilation inhomogeneities in children with congenital thoracic malformations. <i>BMC Pulmonary Medicine</i> , 2015, 15, 25.	2.0	6
81	Polysomnography for the management of oxygen supplementation therapy in infants with chronic lung disease of prematurity. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2019, 32, 3640-3646.	1.5	6
82	Elevated Serum Tissue Transglutaminase Antibodies in Children With Eosinophilic Esophagitis. <i>Journal of Pediatric Gastroenterology and Nutrition</i> , 2017, 65, 69-74.	1.8	5
83	Fetal Eosinophils Get on the Nerves of Airways. Early Origins of Bronchoconstriction. <i>American Journal of Respiratory Cell and Molecular Biology</i> , 2020, 62, 407-408.	2.9	5
84	Environmental Air Pollutants Inhaled during Pregnancy Are Associated with Altered Cord Blood Immune Cell Profiles. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 7431.	2.6	5
85	Rhinovirus bronchiolitis, maternal asthma, and the development of asthma and lung function impairments. <i>Pediatric Pulmonology</i> , 2021, 56, 362-370.	2.0	5
86	IL-21 comes of age. <i>Immunology and Cell Biology</i> , 2009, 87, 359-360.	2.3	4
87	Reproducibility of serum IgE, Ara h2 skin prick testing and fraction of exhaled nitric oxide for predicting clinical peanut allergy in children. <i>Allergy, Asthma and Clinical Immunology</i> , 2016, 12, 35.	2.0	4
88	Multicentre, randomised trial to investigate early nasal high-flow therapy in paediatric acute hypoxaemic respiratory failure: a protocol for a randomised controlled trial—a Paediatric Acute respiratory Intervention Study (PARIS 2). <i>BMJ Open</i> , 2019, 9, e030516.	1.9	4
89	Variation of DNA Methylation in Newborns Associated with Exhaled Carbon Monoxide during Pregnancy. <i>International Journal of Environmental Research and Public Health</i> , 2021, 18, 1597.	2.6	3
90	Employment of microRNA profiles and RNA interference and antagomirs for the characterization and treatment of respiratory disease. <i>Drug Discovery Today: Therapeutic Strategies</i> , 2006, 3, 325-332.	0.5	2

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91	Change in exhaled nitric oxide during peanut challenge is related to severity of reaction. <i>Allergy, Asthma and Clinical Immunology</i> , 2020, 16, 64.	2.0	1
92	Respiratory, birth and health economic measures for use with Indigenous Australian infants in a research trial: a modified Delphi with an Indigenous panel. <i>BMC Pediatrics</i> , 2020, 20, 368.	1.7	1
93	Parenting stress in mothers with asthma during the postpartum period. <i>Journal of Asthma</i> , 2021, , 1-13.	1.7	1
94	Exposure to 4% SF <sub>6</sub> during multiple breath washout affects subsequent infant tidal breathing analysis. <i>Pediatric Pulmonology</i> , 2022, 57, 1089-1091.	2.0	1
95	A Fruit and Vegetable Intervention in Children with Asthma Improved Lung Function and Decreased Asthma Related Illness. , 2020, , .		0