

# Allan B Becker

## List of Publications by Year in descending order

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Version: 2024-02-01

120  
papers

6,628  
citations

101543

36  
h-index

71685

76  
g-index

122  
all docs

122  
docs citations

122  
times ranked

9759  
citing authors

#	ARTICLE	IF	CITATIONS
1	Early infancy microbial and metabolic alterations affect risk of childhood asthma. <i>Science Translational Medicine</i> , 2015, 7, 307ra152.	12.4	1,277
2	Multiancestry association study identifies new asthma risk loci that colocalize with immune-cell enhancer marks. <i>Nature Genetics</i> , 2018, 50, 42-53.	21.4	426
3	GINA 2019: a fundamental change in asthma management. <i>European Respiratory Journal</i> , 2019, 53, 1901046.	6.7	277
4	Roles of Birth Mode and Infant Gut Microbiota in Intergenerational Transmission of Overweight and Obesity From Mother to Offspring. <i>JAMA Pediatrics</i> , 2018, 172, 368.	6.2	235
5	Infant gut microbiota and the hygiene hypothesis of allergic disease: impact of household pets and siblings on microbiota composition and diversity. <i>Allergy, Asthma and Clinical Immunology</i> , 2013, 9, 15.	2.0	219
6	Association of Exposure to Formula in the Hospital and Subsequent Infant Feeding Practices With Gut Microbiota and Risk of Overweight in the First Year of Life. <i>JAMA Pediatrics</i> , 2018, 172, e181161.	6.2	218
7	Exposure to household furry pets influences the gut microbiota of infants at 3-4 months following various birth scenarios. <i>Microbiome</i> , 2017, 5, 40.	11.1	197
8	Screen-time is associated with inattention problems in preschoolers: Results from the CHILD birth cohort study. <i>PLoS ONE</i> , 2019, 14, e0213995.	2.5	165
9	The Canadian Healthy Infant Longitudinal Development (CHILD) Study: examining developmental origins of allergy and asthma: Table 1. <i>Thorax</i> , 2015, 70, 998-1000.	5.6	157
10	Breastmilk Feeding Practices Are Associated with the Co-Occurrence of Bacteria in Mothers' Milk and the Infant Gut: the CHILD Cohort Study. <i>Cell Host and Microbe</i> , 2020, 28, 285-297.e4.	11.0	148
11	Asthma guidelines: the Global Initiative for Asthma in relation to national guidelines. <i>Current Opinion in Allergy and Clinical Immunology</i> , 2017, 17, 99-103.	2.3	128
12	The Canadian asthma primary prevention study: outcomes at 2 years of age. <i>Journal of Allergy and Clinical Immunology</i> , 2004, 113, 650-656.	2.9	127
13	Predicting the atopic march: Results from the Canadian Healthy Infant Longitudinal Development Study. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 601-607.e8.	2.9	127
14	Association Between Artificially Sweetened Beverage Consumption During Pregnancy and Infant Body Mass Index. <i>JAMA Pediatrics</i> , 2016, 170, 662.	6.2	126
15	Fecal Short-Chain Fatty Acid Variations by Breastfeeding Status in Infants at 4 Months: Differences in Relative versus Absolute Concentrations. <i>Frontiers in Nutrition</i> , 2017, 4, 11.	3.7	121
16	Genome-Wide Interaction Analysis of Air Pollution Exposure and Childhood Asthma with Functional Follow-up. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2017, 195, 1373-1383.	5.6	107
17	Canadian Pediatric Asthma Consensus Guidelines, 2003 (updated to December 2004): Introduction. <i>Cmaj</i> , 2005, 173, S12-S14.	2.0	105
18	Shifts in <i>Lachnospira</i> and <i>Clostridium</i> sp. in the 3-month stool microbiome are associated with preschool age asthma. <i>Clinical Science</i> , 2016, 130, 2199-2207.	4.3	100

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19	Ethnic and diet-related differences in the healthy infant microbiome. <i>Genome Medicine</i> , 2017, 9, 32.	8.2	93
20	Human milk fatty acid composition is associated with dietary, genetic, sociodemographic, and environmental factors in the CHILD Cohort Study. <i>American Journal of Clinical Nutrition</i> , 2019, 110, 1370-1383.	4.7	80
21	<i>Bacteroides</i> -dominant gut microbiome of late infancy is associated with enhanced neurodevelopment. <i>Gut Microbes</i> , 2021, 13, 1-17.	9.8	74
22	Cesarean Section, Formula Feeding, and Infant Antibiotic Exposure: Separate and Combined Impacts on Gut Microbial Changes in Later Infancy. <i>Frontiers in Pediatrics</i> , 2017, 5, 200.	1.9	69
23	Linear growth in prepubertal asthmatic children treated with montelukast, beclomethasone, or placebo: a 56-week randomized double-blind study. <i>Annals of Allergy, Asthma and Immunology</i> , 2006, 96, 800-807.	1.0	68
24	Perinatal antibiotic exposure of neonates in Canada and associated risk factors: a population-based study. <i>Journal of Maternal-Fetal and Neonatal Medicine</i> , 2015, 28, 1190-1195.	1.5	66
25	Breastfeeding, maternal asthma and wheezing in the first year of life: a longitudinal birth cohort study. <i>European Respiratory Journal</i> , 2017, 49, 1602019.	6.7	63
26	Shorter sleep duration is associated with reduced cognitive development at two years of age. <i>Sleep Medicine</i> , 2018, 48, 131-139.	1.6	59
27	Associations between meeting the Canadian 24-Hour Movement Guidelines for the Early Years and behavioral and emotional problems among 3-year-olds. <i>Journal of Science and Medicine in Sport</i> , 2019, 22, 797-802.	1.3	59
28	Summary of recommendations from the Canadian Asthma Consensus guidelines, 2003. <i>Cmaj</i> , 2005, 173, S3-11.	2.0	52
29	Chronic exposure to perfluorinated compounds: Impact on airway hyperresponsiveness and inflammation. <i>American Journal of Physiology - Lung Cellular and Molecular Physiology</i> , 2014, 307, L765-L774.	2.9	50
30	The Canadian Healthy Infant Longitudinal Development (CHILD) birth cohort study: assessment of environmental exposures. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2015, 25, 580-592.	3.9	49
31	Timing of food introduction and development of food sensitization in a prospective birth cohort. <i>Pediatric Allergy and Immunology</i> , 2017, 28, 471-477.	2.6	48
32	Novel childhood asthma genes interact with in utero and early-life tobacco smoke exposure. <i>Journal of Allergy and Clinical Immunology</i> , 2014, 133, 885-888.	2.9	47
33	Gut microbiota and allergic disease in children. <i>Annals of Allergy, Asthma and Immunology</i> , 2016, 116, 99-105.	1.0	47
34	Postnatal exposure to household disinfectants, infant gut microbiota and subsequent risk of overweight in children. <i>Cmaj</i> , 2018, 190, E1097-E1107.	2.0	46
35	Reduced risk of peanut sensitization following exposure through breast-feeding and early peanut introduction. <i>Journal of Allergy and Clinical Immunology</i> , 2018, 141, 620-625.e1.	2.9	45
36	Vitamin D [1,25(OH)2D3] Differentially Regulates Human Innate Cytokine Responses to Bacterial versus Viral Pattern Recognition Receptor Stimuli. <i>Journal of Immunology</i> , 2016, 196, 2965-2972.	0.8	38

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37	Exclusive breastfeeding in hospital predicts longer breastfeeding duration in Canada: Implications for health equity. <i>Birth</i> , 2018, 45, 440-449.	2.2	38
38	Exposure to Beta-(1,3)-D-Glucan in House Dust at Age 7-10 Is Associated with Airway Hyperresponsiveness and Atopic Asthma by Age 11-14. <i>PLoS ONE</i> , 2014, 9, e98878.	2.5	37
39	Current State and Future of Biologic Therapies in the Treatment of Asthma in Children. <i>Pediatric, Allergy, Immunology, and Pulmonology</i> , 2018, 31, 119-131.	0.8	35
40	Maternal consumption of artificially sweetened beverages during pregnancy is associated with infant gut microbiota and metabolic modifications and increased infant body mass index. <i>Gut Microbes</i> , 2021, 13, 1-15.	9.8	35
41	Maternal depressive symptoms linked to reduced fecal Immunoglobulin A concentrations in infants. <i>Brain, Behavior, and Immunity</i> , 2018, 68, 123-131.	4.1	34
42	Epinephrine use for anaphylaxis: Too seldom, too late. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 119, 108-110.	1.0	32
43	Harmonization of Food-Frequency Questionnaires and Dietary Pattern Analysis in 4 Ethnically Diverse Birth Cohorts. <i>Journal of Nutrition</i> , 2016, 146, 2343-2350.	2.9	31
44	Does the impact of a plant-based diet during pregnancy on birth weight differ by ethnicity? A dietary pattern analysis from a prospective Canadian birth cohort alliance. <i>BMJ Open</i> , 2017, 7, e017753.	1.9	31
45	Wheeze trajectories are modifiable through early-life intervention and predict asthma in adolescence. <i>Pediatric Allergy and Immunology</i> , 2018, 29, 612-621.	2.6	31
46	From Birth to Overweight and Atopic Disease: Multiple and Common Pathways of the Infant Gut Microbiome. <i>Gastroenterology</i> , 2021, 160, 128-144.e10.	1.3	31
47	Association of use of cleaning products with respiratory health in a Canadian birth cohort. <i>Cmaj</i> , 2020, 192, E154-E161.	2.0	30
48	Natural environments in the urban context and gut microbiota in infants. <i>Environment International</i> , 2020, 142, 105881.	10.0	30
49	Oral food challenge outcomes in a pediatric tertiary care center. <i>Allergy, Asthma and Clinical Immunology</i> , 2017, 13, 43.	2.0	29
50	Depression Is More Common in Girls With Nonatopic Asthma. <i>Chest</i> , 2011, 140, 1138-1145.	0.8	28
51	Controversies and challenges of exercise-induced bronchoconstriction and their implications for children. <i>Pediatric Pulmonology</i> , 2001, 32, 38-45.	2.0	27
52	High fecal IgA is associated with reduced <i>Clostridium difficile</i> colonization in infants. <i>Microbes and Infection</i> , 2016, 18, 543-549.	1.9	26
53	Associations between concentrations of perfluoroalkyl substances in human plasma and maternal, infant, and home characteristics in Winnipeg, Canada. <i>Environmental Pollution</i> , 2019, 249, 758-766.	7.5	26
54	A qualitative study exploring parents' experiences with epinephrine use for their child's anaphylactic reaction. <i>Clinical and Translational Allergy</i> , 2018, 8, 43.	3.2	24

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55	Maternal Diet and the Serum Metabolome in Pregnancy: Robust Dietary Biomarkers Generalizable to a Multiethnic Birth Cohort. <i>Current Developments in Nutrition</i> , 2020, 4, nzaa144.	0.3	24
56	<i>Clostridioides difficile</i> Colonization Is Differentially Associated With Gut Microbiome Profiles by Infant Feeding Modality at 3–4 Months of Age. <i>Frontiers in Immunology</i> , 2019, 10, 2866.	4.8	22
57	Bacterial–fungal interactions in the neonatal gut influence asthma outcomes later in life. <i>ELife</i> , 2021, 10, .	6.0	22
58	Wheeze trajectories: Determinants and outcomes in the CHILD Cohort Study. <i>Journal of Allergy and Clinical Immunology</i> , 2022, 149, 2153-2165.	2.9	22
59	Trajectories of Depressive Symptoms and Perceived Stress From Pregnancy to the Postnatal Period Among Canadian Women: Impact of Employment and Immigration. <i>American Journal of Public Health</i> , 2019, 109, S197-S204.	2.7	21
60	A rich meconium metabolome in human infants is associated with early-life gut microbiota composition and reduced allergic sensitization. <i>Cell Reports Medicine</i> , 2021, 2, 100260.	6.5	21
61	Clinical Evidence with Montelukast in the Management of Chronic Childhood Asthma. <i>Drugs</i> , 2000, 59, 29-34.	10.9	20
62	Primary prevention of asthma. <i>Current Opinion in Pulmonary Medicine</i> , 2002, 8, 16-24.	2.6	20
63	Sex-specific impact of asthma during pregnancy on infant gut microbiota. <i>European Respiratory Journal</i> , 2017, 50, 1700280.	6.7	20
64	Cognitive Enhancement in Infants Associated with Increased Maternal Fruit Intake During Pregnancy: Results from a Birth Cohort Study with Validation in an Animal Model. <i>EBioMedicine</i> , 2016, 8, 331-340.	6.1	19
65	Timing of Introduction, Sensitization, and Allergy to Highly Allergenic Foods at Age 3 Years in a General-Population Canadian Cohort. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2020, 8, 166-175.e10.	3.8	19
66	Is primary prevention of asthma possible?. <i>Pediatric Pulmonology</i> , 2000, 30, 63-72.	2.0	18
67	Leukotriene receptor antagonists: Efficacy and safety in children with asthma. <i>Pediatric Pulmonology</i> , 2000, 30, 183-186.	2.0	18
68	Maternal psychological distress before birth influences gut immunity in mid-infancy. <i>Clinical and Experimental Allergy</i> , 2020, 50, 178-188.	2.9	18
69	Parent-Reported Symptoms of Sleep-Disordered Breathing Are Associated With Increased Behavioral Problems at 2 Years of Age: The Canadian Healthy Infant Longitudinal Development Birth Cohort Study. <i>Sleep</i> , 2018, 41, .	1.1	16
70	Vitamin D supplementation in pregnancy and early infancy in relation to gut microbiota composition and <i>C. difficile</i> colonization: implications for viral respiratory infections. <i>Gut Microbes</i> , 2020, 12, 1799734.	9.8	16
71	Ethnicity Associations With Food Sensitization Are Mediated by Gut Microbiota Development in the First Year of Life. <i>Gastroenterology</i> , 2021, 161, 94-106.	1.3	16
72	Challenges to treatment goals and outcomes in pediatric asthma. <i>Journal of Allergy and Clinical Immunology</i> , 2002, 109, S533-S538.	2.9	15

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73	Associations between the 17q21 region and allergic rhinitis in 5 birth cohorts. <i>Journal of Allergy and Clinical Immunology</i> , 2015, 135, 573-576.e5.	2.9	15
74	Effect of asthma therapies on the natural course of asthma. <i>Annals of Allergy, Asthma and Immunology</i> , 2016, 117, 627-633.	1.0	15
75	Montelukast in asthmatic patients 6 yearsâ€“14 years old with an FEV1 > 75%. <i>Current Medical Research and Opinion</i> , 2004, 20, 1651-1659.	1.9	14
76	Phenotypes of sleep-disordered breathing symptoms to two years of age based on age of onset and duration of symptoms. <i>Sleep Medicine</i> , 2018, 48, 93-100.	1.6	14
77	Does inhaled steroid therapy help emerging asthma in early childhood?. <i>Lancet Respiratory Medicine</i> , 2017, 5, 827-834.	10.7	13
78	Prenatal depression and birth mode sequentially mediate maternal education's influence on infant sleep duration. <i>Sleep Medicine</i> , 2019, 59, 24-32.	1.6	13
79	Cardiorespiratory Monitoring Data during Sleep in Healthy Canadian Infants. <i>Annals of the American Thoracic Society</i> , 2020, 17, 1238-1246.	3.2	13
80	Effectiveness of montelukast administered as monotherapy or in combination with inhaled corticosteroid in pediatric patients with uncontrolled asthma: a prospective cohort study. <i>Allergy, Asthma and Clinical Immunology</i> , 2014, 10, 21.	2.0	12
81	Wheezing Patterns in Early Childhood and the Risk of Respiratory and Allergic Disease in Adolescence. <i>JAMA Pediatrics</i> , 2016, 170, 393.	6.2	12
82	Evaluation of eczema, asthma, allergic rhinitis and allergies among the Grade-1 children of Iqaluit. <i>Allergy, Asthma and Clinical Immunology</i> , 2018, 14, 9.	2.0	12
83	Myeloidâ€“derived suppressor cells: Roles and relations with Th2, Th17, and Treg cells in asthma. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2019, 74, 2233-2237.	5.7	12
84	Polygenic risk score for atopic dermatitis in the Canadian population. <i>Journal of Allergy and Clinical Immunology</i> , 2021, 147, 406-409.	2.9	12
85	Reduced peanut sensitization with maternal peanut consumption and early peanut introduction while breastfeeding. <i>Journal of Developmental Origins of Health and Disease</i> , 2021, 12, 811-818.	1.4	12
86	1998 Revision of the Canadian Asthma Consensus Guidelines. <i>Canadian Respiratory Journal</i> , 1999, 6, 231-232.	1.6	11
87	Primary Prevention of Allergy and Asthma Is Possible. <i>Clinical Reviews in Allergy and Immunology</i> , 2005, 28, 005-016.	6.5	11
88	Primary asthma prevention: Is it possible?. <i>Current Allergy and Asthma Reports</i> , 2008, 8, 255-261.	5.3	8
89	Ventilation inhomogeneity in infants with recurrent wheezing. <i>Thorax</i> , 2018, 73, 936-941.	5.6	8
90	Ethnic differences in maternal diet in pregnancy and infant eczema. <i>PLoS ONE</i> , 2020, 15, e0232170.	2.5	8

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91	Assessing secondhand and thirdhand tobacco smoke exposure in Canadian infants using questionnaires, biomarkers, and machine learning. <i>Journal of Exposure Science and Environmental Epidemiology</i> , 2022, 32, 112-123.	3.9	8
92	Risk for Maternal Depressive Symptoms and Perceived Stress by Ethnicities in Canada: From Pregnancy Through the Preschool Years. <i>Canadian Journal of Psychiatry</i> , 2019, 64, 190-198.	1.9	7
93	Paradigm Shift in Asthma Therapy for Adolescents. <i>JAMA Pediatrics</i> , 2020, 174, 227.	6.2	7
94	Decision tree-based rules outperform risk scores for childhood asthma prognosis. <i>Pediatric Allergy and Immunology</i> , 2021, 32, 1464-1473.	2.6	7
95	Longitudinal body mass index trajectories at preschool age: children with rapid growth have differential composition of the gut microbiota in the first year of life. <i>International Journal of Obesity</i> , 2022, 46, 1351-1358.	3.4	7
96	Diagnosing atopic dermatitis in infancy: Questionnaire reports vs criteria-based assessment. <i>Paediatric and Perinatal Epidemiology</i> , 2018, 32, 556-567.	1.7	6
97	Reference equations for the interpretation of forced expiratory and plethysmographic measurements in infants. <i>Pediatric Pulmonology</i> , 2018, 53, 907-916.	2.0	6
98	Time for Allergists to Consider the Role of Mouse Allergy in Non-Inner City Children with Asthma. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 1778-1782.	3.8	6
99	Sex-specific associations of human milk long-chain polyunsaturated fatty acids and infant allergic conditions. <i>Pediatric Allergy and Immunology</i> , 2021, 32, 1173-1182.	2.6	6
100	Calcium Intake in Children with Eczema and/or Food Allergy: A Prospective Cohort Study. <i>Nutrients</i> , 2019, 11, 3039.	4.1	5
101	The relationship between machine-learning-derived sleep parameters and behavior problems in 3- and 5-year-old children: results from the CHILD Cohort study. <i>Sleep</i> , 2020, 43, .	1.1	5
102	Use of Oral Corticosteroids in the Wheezy Toddler. <i>Journal of Pediatrics</i> , 2018, 201, 16-20.	1.8	4
103	Evaluation of eczema, asthma, allergic rhinitis and allergies among the grade-7 children of Iqaluit. <i>Allergy, Asthma and Clinical Immunology</i> , 2019, 15, 26.	2.0	4
104	Prenatal egg consumption and infant sensitization and allergy to egg, peanut, and cow's milk in the CHILD Cohort. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2021, 9, 2109-2112.e2.	3.8	4
105	Development and Validation of SDBeas Score as a Predictor of Behavioral Outcomes in Childhood. <i>American Journal of Respiratory and Critical Care Medicine</i> , 2021, 203, 718-725.	5.6	4
106	Factors associated with breast-feeding initiation and continuation in Canadian-born and non-Canadian-born women: a multi-centre study. <i>Public Health Nutrition</i> , 2022, 25, 2822-2833.	2.2	4
107	Delayed stinging insect reactions. <i>Annals of Allergy, Asthma and Immunology</i> , 2017, 119, 287-288.	1.0	3
108	Food allergy and growth from late childhood to early adolescence. <i>Annals of Allergy, Asthma and Immunology</i> , 2020, 125, 483-485.	1.0	3

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109	Transitions between alternating childhood allergy sensitization and current asthma states: A retrospective cohort analysis. <i>Pediatric Allergy and Immunology</i> , 2022, 33, e13699.	2.6	3
110	What Is the Role of Increasing Inhaled Corticosteroid Therapy in Worsening Asthma in Children?. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , 2019, 7, 842-847.	3.8	2
111	Where does worsening asthma end and an asthma exacerbation begin?. <i>Annals of Allergy, Asthma and Immunology</i> , 2019, 123, 329-330.	1.0	2
112	Sex-specific association of human milk hormones and asthma in the CHILD cohort. <i>Pediatric Allergy and Immunology</i> , 2020, 31, 570-573.	2.6	2
113	Biochemical and Ultrastructural Studies Suggest that the Effects of Thapsigargin on Human Platelets Are Mediated by Changes in Intracellular Calcium but not by Intracellular Histamine. <i>Thrombosis and Haemostasis</i> , 1992, 68, 714-718.	3.4	2
114	Newly developed multiple-breath washout reference equations from the CHILD Cohort Study: implications of poorly fitting equations. <i>ERJ Open Research</i> , 2021, 7, 00301-2020.	2.6	2
115	Cord blood hemopoietic cell receptor expression is associated with early life atopic risk and lung function. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , 2020, 75, 1762-1765.	5.7	1
116	World Health Organization growth standards: How do Canadian children measure up?. <i>Paediatrics and Child Health</i> , 2021, 26, e208-e214.	0.6	1
117	Commentary on "Asthma and the Environment: Can Asthma Be Prevented?". <i>Evidence-Based Child Health: A Cochrane Review Journal</i> , 2010, 5, 1453-1455.	2.0	0
118	Wheezing in young children: WAITing for pharmacogenomics?. <i>Lancet Respiratory Medicine</i> , 2014, 2, 776-777.	10.7	0
119	<i>Clostridioides Difficile</i> Colonization Is Differentially Associated with Gut Microbiota Composition in Breastfed versus Formula Fed Infants (OR01-02-19). <i>Current Developments in Nutrition</i> , 2019, 3, nzz040.OR01-02-19.	0.3	0
120	Lung clearance index predicts persistence of preschool wheeze. <i>Pediatric Allergy and Immunology</i> , 2022, 33, .	2.6	0