

# Morten Arendt Rasmussen

## List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

110  
papers

3,496  
citations

29  
h-index

56  
g-index

118  
ext. papers

4,472  
ext. citations

7.7  
avg, IF

5.34  
L-index

#	Paper	IF	Citations
110	A genome-wide association study identifies CDHR3 as a susceptibility locus for early childhood asthma with severe exacerbations. <i>Nature Genetics</i> , <b>2014</b> , 46, 51-5	36.3	376
109	Fish Oil-Derived Fatty Acids in Pregnancy and Wheeze and Asthma in Offspring. <i>New England Journal of Medicine</i> , <b>2016</b> , 375, 2530-9	59.2	253
108	High-fat diet reprograms the epigenome of rat spermatozoa and transgenerationally affects metabolism of the offspring. <i>Molecular Metabolism</i> , <b>2016</b> , 5, 184-197	8.8	217
107	Maturation of the gut microbiome and risk of asthma in childhood. <i>Nature Communications</i> , <b>2018</b> , 9, 14117.4	17.4	216
106	Effect of Vitamin D3 Supplementation During Pregnancy on Risk of Persistent Wheeze in the Offspring: A Randomized Clinical Trial. <i>JAMA - Journal of the American Medical Association</i> , <b>2016</b> , 315, 353-61	27.4	191
105	Systematic review: are lymphocytic colitis and collagenous colitis two subtypes of the same disease - microscopic colitis?. <i>Alimentary Pharmacology and Therapeutics</i> , <b>2012</b> , 36, 79-90	6.1	99
104	Pathogenic bacteria colonizing the airways in asymptomatic neonates stimulates topical inflammatory mediator release. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2013</b> , 187, 589-95	10.2	98
103	Large-scale benchmarking reveals false discoveries and count transformation sensitivity in 16S rRNA gene amplicon data analysis methods used in microbiome studies. <i>Microbiome</i> , <b>2016</b> , 4, 62	16.6	93
102	Relationships between food neophobia and food intake and preferences: Findings from a sample of New Zealand adults. <i>Appetite</i> , <b>2017</b> , 116, 410-422	4.5	78
101	Gene expression patterns in multiple organs in experimentally induced Staphylococcus aureus sepsis in pigs. <i>Critical Care</i> , <b>2013</b> , 17, P95	10.8	78
100	A primer to nutritional metabolomics by NMR spectroscopy and chemometrics. <i>Food Research International</i> , <b>2013</b> , 54, 1131-1145	7	72
99	A tutorial on the Lasso approach to sparse modeling. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2012</b> , 119, 21-31	3.8	70
98	Understanding data fusion within the framework of coupled matrix and tensor factorizations. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2013</b> , 129, 53-63	3.8	65
97	Structure-revealing data fusion. <i>BMC Bioinformatics</i> , <b>2014</b> , 15, 239	3.6	61
96	Children with asthma by school age display aberrant immune responses to pathogenic airway bacteria as infants. <i>Journal of Allergy and Clinical Immunology</i> , <b>2014</b> , 133, 1008-13	11.5	61
95	Recent chemometrics advances for foodomics. <i>TrAC - Trends in Analytical Chemistry</i> , <b>2017</b> , 96, 42-51	14.6	61
94	Quantification of individual fatty acids in bovine milk by infrared spectroscopy and chemometrics: understanding predictions of highly collinear reference variables. <i>Journal of Dairy Science</i> , <b>2014</b> , 97, 7940-51	14.51	58

93	Infant airway microbiota and topical immune perturbations in the origins of childhood asthma. <i>Nature Communications</i> , <b>2019</b> , 10, 5001	17.4	52
92	Near-infrared spectroscopy for cocrystal screening. A comparative study with Raman spectroscopy. <i>Analytical Chemistry</i> , <b>2008</b> , 80, 7755-64	7.8	52
91	Clinical presentation of atopic dermatitis by filaggrin gene mutation status during the first 7 years of life in a prospective cohort study. <i>PLoS ONE</i> , <b>2012</b> , 7, e48678	3.7	51
90	Forecasting individual breast cancer risk using plasma metabolomics and biocontours. <i>Metabolomics</i> , <b>2015</b> , 11, 1376-1380	4.7	48
89	Neonatal cytokine profile in the airway mucosal lining fluid is skewed by maternal atopy. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2012</b> , 185, 275-80	10.2	47
88	Characterization of dietary patterns in the Danish national birth cohort in relation to preterm birth. <i>PLoS ONE</i> , <b>2014</b> , 9, e93644	3.7	42
87	Maternal protein intake during pregnancy and offspring overweight 20 y later. <i>American Journal of Clinical Nutrition</i> , <b>2014</b> , 100, 1139-48	7	40
86	Short- and long-term impacts of azithromycin treatment on the gut microbiota in children: A double-blind, randomized, placebo-controlled trial. <i>EBioMedicine</i> , <b>2018</b> , 38, 265-272	8.8	37
85	The developing hypopharyngeal microbiota in early life. <i>Microbiome</i> , <b>2016</b> , 4, 70	16.6	34
84	Delivery mode and gut microbial changes correlate with an increased risk of childhood asthma. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	33
83	Atopic endotype in childhood. <i>Journal of Allergy and Clinical Immunology</i> , <b>2016</b> , 137, 844-51.e4	11.5	31
82	bammds: a tool for assessing the ancestry of low-depth whole-genome data using multidimensional scaling (MDS). <i>Bioinformatics</i> , <b>2014</b> , 30, 2962-4	7.2	31
81	Sociodemographic characteristics and food habits of organic consumers--a study from the Danish National Birth Cohort. <i>Public Health Nutrition</i> , <b>2013</b> , 16, 1810-9	3.3	29
80	Counteracting Age-related Loss of Skeletal Muscle Mass: a clinical and ethnological trial on the role of protein supplementation and training load (CALM Intervention Study): study protocol for a randomized controlled trial. <i>Trials</i> , <b>2016</b> , 17, 397	2.8	28
79	Epidemiology and Risk Factors of Infection in Early Childhood. <i>Pediatrics</i> , <b>2018</b> , 141,	7.4	27
78	Season of birth shapes neonatal immune function. <i>Journal of Allergy and Clinical Immunology</i> , <b>2016</b> , 137, 1238-1246.e13	11.5	25
77	Dynamic epigenetic responses to muscle contraction. <i>Drug Discovery Today</i> , <b>2014</b> , 19, 1010-4	8.8	25
76	Ionizing Radiation Potentiates High-Fat Diet-Induced Insulin Resistance and Reprograms Skeletal Muscle and Adipose Progenitor Cells. <i>Diabetes</i> , <b>2016</b> , 65, 3573-3584	0.9	25

75	Benchmarking support vector regression against partial least squares regression and artificial neural network: Effect of sample size on model performance. <i>Journal of Near Infrared Spectroscopy</i> , <b>2017</b> , 25, 381-390	1.5	23
74	Maternal dietary patterns during pregnancy in relation to offspring forearm fractures: prospective study from the Danish National Birth Cohort. <i>Nutrients</i> , <b>2015</b> , 7, 2382-400	6.7	23
73	Airway obstruction and bronchial reactivity from age 1 month until 13 years in children with asthma: A prospective birth cohort study. <i>PLoS Medicine</i> , <b>2019</b> , 16, e1002722	11.6	23
72	Fish-oil supplementation in pregnancy, child metabolomics and asthma risk. <i>EBioMedicine</i> , <b>2019</b> , 46, 399-410	4.8	22
71	Multivariate analysis of the relation between diet and warfarin dose. <i>European Journal of Clinical Pharmacology</i> , <b>2012</b> , 68, 321-8	2.8	22
70	Skin reaction and regeneration after single sodium lauryl sulfate exposure stratified by filaggrin genotype and atopic dermatitis phenotype. <i>British Journal of Dermatology</i> , <b>2015</b> , 172, 1519-1529	4	22
69	Application of Support Vector Regression for Simultaneous Modelling of near Infrared Spectra from Multiple Process Steps. <i>Journal of Near Infrared Spectroscopy</i> , <b>2015</b> , 23, 75-84	1.5	21
68	Sensitization trajectories in childhood revealed by using a cluster analysis. <i>Journal of Allergy and Clinical Immunology</i> , <b>2017</b> , 140, 1693-1699	11.5	19
67	Ecological succession in the vaginal microbiota during pregnancy and birth. <i>ISME Journal</i> , <b>2020</b> , 14, 2325-2335	23.5	18
66	From metabolome to phenotype: GC-MS metabolomics of developing mutant barley seeds reveals effects of growth, temperature and genotype. <i>Scientific Reports</i> , <b>2017</b> , 7, 8195	4.9	16
65	Complex multi-block analysis identifies new immunologic and genetic disease progression patterns associated with the residual $\beta$ cell function 1 year after diagnosis of type 1 diabetes. <i>PLoS ONE</i> , <b>2013</b> , 8, e64632	3.7	16
64	Monitoring Process Water Quality Using Near Infrared Spectroscopy and Partial Least Squares Regression with Prediction Uncertainty Estimation. <i>Applied Spectroscopy</i> , <b>2017</b> , 71, 410-421	3.1	15
63	Prelabor cesarean section bypasses natural immune cell maturation. <i>Journal of Allergy and Clinical Immunology</i> , <b>2015</b> , 136, 1123-5.e6	11.5	15
62	Coupled Matrix Factorization with Sparse Factors to Identify Potential Biomarkers in Metabolomics <b>2012</b> ,		15
61	Levels of Systemic Low-grade Inflammation in Pregnant Mothers and Their Offspring are Correlated. <i>Scientific Reports</i> , <b>2019</b> , 9, 3043	4.9	15
60	Dietary patterns and the risk of pregnancy-associated hypertension in the Danish National Birth Cohort: a prospective longitudinal study. <i>BJOG: an International Journal of Obstetrics and Gynaecology</i> , <b>2019</b> , 126, 663-673	3.7	14
59	Distinct immune phenotypes in infants developing asthma during childhood. <i>Science Translational Medicine</i> , <b>2020</b> , 12,	17.5	14
58	The infant gut resistome associates with <i>E. coli</i> , environmental exposures, gut microbiome maturity, and asthma-associated bacterial composition. <i>Cell Host and Microbe</i> , <b>2021</b> , 29, 975-987.e4	23.4	14

57	Prenatal dietary supplements influence the infant airway microbiota in a randomized factorial clinical trial. <i>Nature Communications</i> , <b>2020</b> , 11, 426	17.4	13
56	Moving from recipe-driven to measurement-based cleaning procedures: Monitoring the Cleaning-In-Place process of whey filtration units by ultraviolet spectroscopy and chemometrics. <i>Journal of Food Engineering</i> , <b>2014</b> , 126, 82-88	6	13
55	Structure-revealing data fusion model with applications in metabolomics. <i>Annual International Conference of the IEEE Engineering in Medicine and Biology Society IEEE Engineering in Medicine and Biology Society Annual International Conference</i> , <b>2013</b> , 2013, 6023-6	0.9	13
54	Directed differentiation of porcine epiblast-derived neural progenitor cells into neurons and glia. <i>Stem Cell Research</i> , <b>2011</b> , 7, 124-36	1.6	13
53	Multivariate evaluation of pharmacological responses in early clinical trials - a study of rIL-21 in the treatment of patients with metastatic melanoma. <i>British Journal of Clinical Pharmacology</i> , <b>2010</b> , 69, 379-90	3.8	13
52	Susceptibility to Lower Respiratory Infections in Childhood is Associated with Perturbation of the Cytokine Response to Pathogenic Airway Bacteria. <i>Pediatric Infectious Disease Journal</i> , <b>2016</b> , 35, 561-6	3.4	12
51	Detecting variation in ultrafiltrated milk permeates [Infrared spectroscopy signatures and external factor orthogonalization. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2010</b> , 104, 243-248	3.8	11
50	Urbanized microbiota in infants, immune constitution, and later risk of atopic diseases. <i>Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 148, 234-243	11.5	11
49	Siblings Promote a Type 1/Type 17-oriented immune response in the airways of asymptomatic neonates. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2016</b> , 71, 820-8	9.3	11
48	The effect of daily protein supplementation, with or without resistance training for 1 year, on muscle size, strength, and function in healthy older adults: A randomized controlled trial. <i>American Journal of Clinical Nutrition</i> , <b>2021</b> , 113, 790-800	7	11
47	Neonatal Urine Metabolic Profiling and Development of Childhood Asthma. <i>Metabolites</i> , <b>2019</b> , 9,	5.6	10
46	New insights from a β-glucan human intervention study using NMR metabolomics. <i>Food Research International</i> , <b>2014</b> , 63, 210-217	7	10
45	Coupled Matrix Factorization with Sparse Factors to Identify Potential Biomarkers in Metabolomics. <i>International Journal of Knowledge Discovery in Bioinformatics</i> , <b>2012</b> , 3, 22-43		10
44	Genetic, clinical and behavioural determinants of vitamin K-antagonist dose--explored through multivariable modelling and visualization. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2012</b> , 110, 193-8	3.1	10
43	Comprehensive control charting applied to chromatography. <i>Chemometrics and Intelligent Laboratory Systems</i> , <b>2011</b> , 107, 215-225	3.8	10
42	Environmental shaping of the bacterial and fungal community in infant bed dust and correlations with the airway microbiota. <i>Microbiome</i> , <b>2020</b> , 8, 115	16.6	10
41	Divergent response profile in activated cord blood T cells from first-born child implies birth-order-associated in utero immune programming. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2016</b> , 71, 323-32	9.3	10
40	Modeling transfer of vaginal microbiota from mother to infant in early life. <i>ELife</i> , <b>2021</b> , 10,	8.9	10

39	The Airway Microbiota Modulates Effect of Azithromycin Treatment for Episodes of Recurrent Asthma-like Symptoms in Preschool Children: A Randomized Clinical Trial. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2021</b> , 204, 149-158	10.2	9
38	A comprehensive approach to benefit-risk assessment in drug development. <i>Basic and Clinical Pharmacology and Toxicology</i> , <b>2012</b> , 111, 65-72	3.1	8
37	Interval-Based Chemometric Methods in NMR Foodomics. <i>Data Handling in Science and Technology</i> , <b>2013</b> , 28, 449-486	2.7	8
36	Patterns of time since last meal revealed by sparse PCA in an observational LCMS based metabolomics study. <i>Metabolomics</i> , <b>2013</b> , 9, 1073-1081	4.7	7
35	Enhanced monitoring of biopharmaceutical product purity using liquid chromatography-mass spectrometry. <i>Journal of Chromatography A</i> , <b>2011</b> , 1218, 4340-8	4.5	7
34	Children with Asthma Have Fixed Airway Obstruction through Childhood Unaffected by Exacerbations. <i>Journal of Allergy and Clinical Immunology: in Practice</i> , <b>2020</b> , 8, 1263-1271.e3	5.4	7
33	Characteristics and Mechanisms of a Sphingolipid-associated Childhood Asthma Endotype. <i>American Journal of Respiratory and Critical Care Medicine</i> , <b>2021</b> , 203, 853-863	10.2	7
32	Evaluation of a four month rehabilitation program for stroke patients with balance problems and binocular visual dysfunction. <i>NeuroRehabilitation</i> , <b>2016</b> , 38, 331-41	2	7
31	Problems with balance and binocular visual dysfunction are associated with post-stroke fatigue. <i>Topics in Stroke Rehabilitation</i> , <b>2017</b> , 24, 41-49	2.6	6
30	Limited clinical value of exhaled volatile organic compound measurements in childhood asthma. <i>ERJ Open Research</i> , <b>2018</b> , 4,	3.5	6
29	Vocational Rehabilitation in Mild Traumatic Brain Injury: Supporting Return to Work and Daily Life Functioning. <i>Frontiers in Neurology</i> , <b>2019</b> , 10, 103	4.1	5
28	Chemometric Exploration of Quantitative NMR Data <b>2013</b> ,		5
27	Full spectrum endoscopy (FUSE) versus standard forward-viewing endoscope (SFV) in a high-risk population. <i>Scandinavian Journal of Gastroenterology</i> , <b>2017</b> , 52, 1298-1303	2.4	5
26	Increasing severity of early-onset atopic dermatitis, but not late-onset, associates with development of aeroallergen sensitization and allergic rhinitis in childhood. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> ,	9.3	5
25	Reduced IL-2 response from peripheral blood mononuclear cells exposed to bacteria at 6 months of age is associated with elevated total-IgE and allergic rhinitis during the first 7 years of life. <i>EBioMedicine</i> , <b>2019</b> , 43, 587-593	8.8	4
24	Application of multivariate data analysis for food quality investigations: An example-based review.. <i>Food Research International</i> , <b>2022</b> , 151, 110878	7	4
23	Neonatal metabolome of cesarean section and risk of childhood asthma. <i>European Respiratory Journal</i> , <b>2021</b> ,	13.6	4
22	Airway immune mediator levels during asthma-like symptoms in young children and their possible role in response to azithromycin. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 76, 1754-1764	9.3	3

21	Season of Birth Impacts the Neonatal Nasopharyngeal Microbiota. <i>Children</i> , <b>2020</b> , 7,	2.8	3
20	DNA enrichment and tagmentation method for species-level identification and strain-level differentiation using ON-rep-seq. <i>Communications Biology</i> , <b>2019</b> , 2, 369	6.7	3
19	No genetic footprints of the fat mass and obesity associated (FTO) gene in human plasma 1H CPMG NMR metabolic profiles. <i>Metabolomics</i> , <b>2014</b> , 10, 132-140	4.7	3
18	Vertical Transfer of Metabolites Detectable from Newborn's Dried Blood Spot Samples Using UPLC-MS: A Chemometric Study.. <i>Metabolites</i> , <b>2022</b> , 12,	5.6	3
17	Influence of Age, Sex, and Diet on the Human Fecal Metabolome Investigated by H NMR Spectroscopy. <i>Journal of Proteome Research</i> , <b>2021</b> , 20, 3642-3653	5.6	3
16	Hundreds of viral families in the healthy infant gut		3
15	Importance of data preparation when analysing written responses to open-ended questions: An empirical assessment and comparison with manual coding. <i>Food Quality and Preference</i> , <b>2021</b> , 93, 104270	5.8	3
14	Environmental grass pollen levels in utero and at birth and cord blood IgE: Analysis of three birth cohorts. <i>Environment International</i> , <b>2018</b> , 119, 295-301	12.9	2
13	Generalized L1 penalized matrix factorization. <i>Journal of Chemometrics</i> , <b>2017</b> , 31, e2855	1.6	2
12	Early life bacterial airway colonization, local immune mediator response and risk of otitis media. <i>Journal of Medical Microbiology</i> , <b>2020</b> , 69, 1124-1131	3.2	2
11	Delayed Motor Milestones Achievement in Infancy Associates with Perturbations of Amino Acids and Lipid Metabolic Pathways. <i>Metabolites</i> , <b>2020</b> , 10,	5.6	2
10	Data representations and -analyses of binary diary data in pursuit of stratifying children based on common childhood illnesses. <i>PLoS ONE</i> , <b>2018</b> , 13, e0207177	3.7	2
9	Should We Embed in Chemistry? A Comparison of Unsupervised Transfer Learning with PCA, UMAP, and VAE on Molecular Fingerprints. <i>Pharmaceuticals</i> , <b>2021</b> , 14,	5.2	2
8	The impact of bacterial cell aggregation on UV inactivation kinetics. <i>Water Research</i> , <b>2021</b> , 204, 117593	12.5	2
7	A manual-based vocational rehabilitation program for patients with an acquired brain injury: study protocol of a pragmatic randomized controlled trial (RCT). <i>Trials</i> , <b>2017</b> , 18, 371	2.8	1
6	Who is winning? A comparison of humans versus computers for calibration model building. <i>Journal of Chemometrics</i> , e3378	1.6	1
5	Innate IL-23/Type 17 immune responses mediate the effect of the 17q21 locus on childhood asthma. <i>Clinical and Experimental Allergy</i> , <b>2021</b> , 51, 892-901	4.1	1
4	Neonatal airway immune profiles and asthma and allergy endpoints in childhood. <i>Allergy: European Journal of Allergy and Clinical Immunology</i> , <b>2021</b> , 76, 3713-3722	9.3	1

3	Metaviromes Reveal the Dynamics of Host-Specific Phages Cultured and Uncultured by Plaque Assay. <i>Viruses</i> , <b>2021</b> , 13,	6.2	1
2	On using kernel integration by graphical LASSO to study partial correlations between heterogeneous data sets. <i>Journal of Chemometrics</i> , <b>2021</b> , 35, e3324	1.6	
1	IMPACT OF SCREENING ON SHORT-TERM MORTALITY AND MORBIDITY FOLLOWING TREATMENT FOR COLORECTAL CANCER. <i>Scandinavian Journal of Surgery</i> , <b>2021</b> , 14574969211019824	3.1	