Michael D Shields

List of Publications by Year
in descending order

81 papers	1,388 citations	394421 19 h-index	395702 33 g-index
81 all docs	81 docs citations	81 times ranked	2409 citing authors

#	Article	IF	Citations
1	The epidemiology, healthcare and societal burden and costs of asthma in the UK and its member nations: analyses of standalone and linked national databases. BMC Medicine, 2016, 14, 113.	5.5	193
2	Relative Respiratory Syncytial Virus Cytopathogenesis in Upper and Lower Respiratory Tract Epithelium. American Journal of Respiratory and Critical Care Medicine, 2013, 188, 842-851.	5.6	68
3	A 3-D Well-Differentiated Model of Pediatric Bronchial Epithelium Demonstrates Unstimulated Morphological Differences Between Asthmatic and Nonasthmatic Cells. Pediatric Research, 2010, 67, 17-22.	2.3	60
4	EGFR Interacts with the Fusion Protein of Respiratory Syncytial Virus Strain 2-20 and Mediates Infection and Mucin Expression. PLoS Pathogens, 2016, 12, e1005622.	4.7	59
5	Adherence to treatment in children and adolescents with cystic fibrosis: a cross-sectional, multi-method study investigating the influence of beliefs about treatment and parental depressive symptoms. BMC Pulmonary Medicine, 2015, 15, 43.	2.0	56
6	Mobile direct observation of therapy (MDOT) - A rapid systematic review and pilot study in children with asthma. PLoS ONE, 2018, 13, e0190031.	2.5	51
7	Respiratory syncytial virus, an ongoing medical dilemma: an expert commentary on respiratory syncytial virus prophylactic and therapeutic pharmaceuticals currently in clinical trials. Influenza and Other Respiratory Viruses, 2015, 9, 169-178.	3.4	50
8	Airway Epithelial Derived Cytokines and Chemokines and Their Role in the Immune Response to Respiratory Syncytial Virus Infection. Pathogens, 2019, 8, 106.	2.8	48
9	Development and clinical validation of a loop-mediated isothermal amplification method for the rapid detection of Neisseria meningitidis. Diagnostic Microbiology and Infectious Disease, 2011, 69, 137-144.	1.8	43
10	Induction and Antagonism of Antiviral Responses in Respiratory Syncytial Virus-Infected Pediatric Airway Epithelium. Journal of Virology, 2015, 89, 12309-12318.	3.4	42
11	Nasal Epithelial Cells Can Act as a Physiological Surrogate for Paediatric Asthma Studies. PLoS ONE, 2014, 9, e85802.	2.5	38
12	Interventions to prevent and treat corticosteroid-induced osteoporosis and prevent osteoporotic fractures in Duchenne muscular dystrophy. The Cochrane Library, 2017, 2017, CD010899.	2.8	37
13	Effects of IL-13 on Mucociliary Differentiation of Pediatric Asthmatic Bronchial Epithelial Cells. Pediatric Research, 2011, 69, 95-100.	2.3	35
14	The difficult coughing child: prolonged acute cough in children. Cough, 2013, 9, 11.	2.7	33
15	Chronic cough in children. Paediatric Respiratory Reviews, 2013, 14, 100-106.	1.8	30
16	Comparative repeatability of two handheld fractional exhaled nitric oxide monitors. Pediatric Pulmonology, 2012, 47, 546-550.	2.0	29
17	Diagnostic accuracy of loop-mediated isothermal amplification as a near-patient test for meningococcal disease in children: an observational cohort study. Lancet Infectious Diseases, The, 2015, 15, 552-558.	9.1	29
18	Estimating the incidence, prevalence and true cost of asthma in the UK: secondary analysis of national stand-alone and linked databases in England, Northern Ireland, Scotland and Walesâ€"a study protocol. BMJ Open, 2014, 4, e006647.	1.9	27

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19	What causes prescribing errors in children? Scoping review. BMJ Open, 2019, 9, e028680.	1.9	27
20	In Vitro Modeling of RSV Infection and Cytopathogenesis in Well-Differentiated Human Primary Airway Epithelial Cells (WD-PAECs). Methods in Molecular Biology, 2016, 1442, 119-139.	0.9	21
21	Loop-mediated isothermal amplification assay for rapid detection of Streptococcus agalactiae (group) Tj ETQq1 1 0.784314 rgBT /Ove 66, 294-300.	1.8	21
22	Respiratory syncytial virus prophylaxis for prevention of recurrent childhood wheeze and asthma: a systematic review. Systematic Reviews, 2020, 9, 269.	5.3	17
23	Exhaled Nitric Oxide in Relation to the Clinical Features of Childhood Asthma. Journal of Asthma, 2004, 41, 751-757.	1.7	16
24	Peanut allergy and allergic airways inflammation. Pediatric Allergy and Immunology, 2010, 21, 1107-1113.	2.6	16
25	Early life inter-kingdom interactions shape the immunological environment of the airways. Microbiome, 2022, 10, 34.	11.1	16
26	Susceptibility to Invasive Meningococcal Disease: Polymorphism of Complement System Genes and Neisseria meningitidis Factor H Binding Protein. PLoS ONE, 2015, 10, e0120757.	2.5	15
27	Clinical and Cost-Effectiveness of Procalcitonin Test for Prodromal Meningococcal Diseaseâ€“A Meta-Analysis. PLoS ONE, 2015, 10, e0128993.	2.5	15
28	Distinct airway epithelial immune responses after infection with SARS-CoV-2 compared to H1N1. Mucosal Immunology, 2022, 15, 952-963.	6.0	15
29	Pulmonary epithelial barrier and immunological functions at birth and in early life - key determinants of the development of asthma?Â A description of the protocol for the Breathing Together study. Wellcome Open Research, 2018, 3, 60.	1.8	14
30	Point-of-care testing for procalcitonin in identifying bacterial infections in young infants: a diagnostic accuracy study. BMC Pediatrics, 2018, 18, 387.	1.7	14
31	Characterisation of morphological differences in well-differentiated nasal epithelial cell cultures from preterm and term infants at birth and one-year. PLoS ONE, 2018, 13, e0201328.	2.5	14
32	Comparative primary paediatric nasal epithelial cell culture differentiation and RSV-induced cytopathogenesis following culture in two commercial media. PLoS ONE, 2020, 15, e0228229.	2.5	14
33	Exhaled breath temperature measurement and asthma control in children prescribed inhaled corticosteroids: A cross sectional study. Pediatric Pulmonology, 2016, 51, 13-21.	2.0	13
34	Comparative Therapeutic Potential of ALX-0171 and Palivizumab against Respiratory Syncytial Virus Clinical Isolate Infection of Well-Differentiated Primary Pediatric Bronchial Epithelial Cell Cultures. Antimicrobial Agents and Chemotherapy, 2020, 64, .	3.2	13
35	Can Certain Genotypes Predispose to Poor Asthma Control in Children? A Pharmacogenetic Study of 9 Candidate Genes in Children with Difficult Asthma. PLoS ONE, 2013, 8, e60592.	2.5	12
36	Fetal umbilical artery Doppler pulsatility index and childhood neurocognitive outcome at 12â€…years. BMJ Open, 2016, 6, e008916.	1.9	11

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37	A comparison of different pre-lysis methods and extraction kits for recovery of Streptococcus agalacticae (Lancefield group B Streptococcus) DNA from whole blood. Journal of Microbiological Methods, 2016, 129, 103-108.	1.6	11
38	The impact of financial incentives on the implementation of asthma or diabetes self-management: A systematic review. PLoS ONE, 2017, 12, e0187478.	2.5	11
39	The child with an incessant dry cough. Paediatric Respiratory Reviews, 2019, 30, 58-64.	1.8	9
40	Characteristics of Reported Pediatric Medication Errors in Northern Ireland and Use in Quality Improvement. Paediatric Drugs, 2020, 22, 551-560.	3.1	9
41	Use of oximetry to screen for paediatric obstructive sleep apnoea: is one night enough and is 6 hours too much?. Archives of Disease in Childhood, 2021, 106, 58-61.	1.9	9
42	Rapid diagnosis of meningococcal disease. Expert Review of Anti-Infective Therapy, 2010, 8, 1321-1323.	4.4	8
43	The â€œPetechiae in childrenâ€•(PiC) study: evaluating potential clinical decision rules for the management of feverish children with non-blanching rashes, including the role of point of care testing for Procalcitonin & Neisseria meningitidis DNA â€“ a study protocol. BMC Pediatrics, 2018, 18, 246.	1.7	8
44	A protocol for a systematic review of the diagnostic accuracy of Loop-mediated-isothermal AMPlification (LAMP) in diagnosis of invasive meningococcal disease in children. Systematic Reviews, 2018, 7, 86.	5.3	8
45	Investigating the clinical use of structured light plethysmography to assess lung function in children with neuromuscular disorders. PLoS ONE, 2019, 14, e0221207.	2.5	8
46	A systematic review of the diagnostic accuracy of Loop-mediated-isothermal AMPlification (LAMP) in theÂdiagnosis of invasive meningococcal disease in children. BMC Pediatrics, 2019, 19, 49.	1.7	8
47	Respiratory viruses do not trigger meningococcal disease in children. Journal of Infection, 2007, 54, 454-458.	3.3	7
48	Proâ€inflammatory mediator responses from neonatal airway epithelial cells and early childhood wheeze. Pediatric Pulmonology, 2018, 53, 10-16.	2.0	7
49	Parentsâ€™ and cliniciansâ€™ views on conducting paediatric diagnostic test accuracy studies without prior informed consent: qualitative insight from the Petechiae in Children study (PiC). Archives of Disease in Childhood, 2019, 104, 979-983.	1.9	7
50	Investigation of Seroprevalence of Respiratory Virus Infections in an Infant Population with a Multiantigen Fluorescence Immunoassay Using Heel-Prick Blood Samples Collected on Filter Paper. Pediatric Research, 1999, 45, 799-802.	2.3	7
51	Challenges of harmonising data from UK national health surveys: a case study of attempts to estimate the UK prevalence of asthma. Journal of the Royal Society of Medicine, 2015, 108, 433-439.	2.0	6
52	Diagnostic test accuracy of point-of-care procalcitonin to diagnose serious bacterial infections in children. BMC Pediatrics, 2020, 20, 487.	1.7	6
53	IL-31 does not induce normal human ciliated epithelial cells to differentiate into a phenotype consistent with the pathophysiology of asthma. Results in Immunology, 2012, 2, 104-111.	2.2	5
54	Epidermal Growth Factor Removal or Tyrphostin AG1478 Treatment Reduces Goblet Cells & Mucus Secretion of Epithelial Cells from Asthmatic Children Using the Air-Liquid Interface Model. PLoS ONE, 2015, 10, e0129546.	2.5	5

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55	Is follow up chest X-ray required in children with round pneumonia?. Archives of Disease in Childhood, 2017, 102, 1182-1183.	1.9	4
56	Diagnostic value of mid-regional pro-Adrenomedullin as a biomarker of invasive bacterial infection in children: a systematic review. BMC Pediatrics, 2022, 22, 176.	1.7	4
57	History Taking as a Diagnostic Tool in Children With Chronic Cough. Frontiers in Pediatrics, 2022, 10, 850912.	1.9	4
58	How we teach children with asthma to use their inhaler: a scoping review protocol. Systematic Reviews, 2020, 9, 178.	5.3	3
59	Mobile video directly observed therapy can be used to improve at-home inhaler technique in children with asthma. ERJ Open Research, 2021, 7, 00463-2021.	2.6	3
60	How we teach children with asthma to use their inhaler: a scoping review. Italian Journal of Pediatrics, 2022, 48, 52.	2.6	3
61	Wet Cough and Nasal Symptoms in Children: Can We Do Better?. Frontiers in Pediatrics, 2019, 7, 459.	1.9	2
62	Respiratory Syncytial Virus and Asthma Inception: Cause and Effect, or Shared Susceptibility?. Journal of Infectious Diseases, 2019, 220, 547-549.	4.0	2
63	The impact of fetal umbilical artery Doppler pulsatility index on childhood respiratory function and atopy: a prospective case-control study. Journal of Maternal-Fetal and Neonatal Medicine, 2020, 33, 707-711.	1.5	2
64	Fifteen-minute consultation: Symptoms and signs of meningococcal disease. Archives of Disease in Childhood: Education and Practice Edition, 2020, 105, 200-203.	0.5	2
65	The ERS approach to e-cigarettes is entirely rational. European Respiratory Journal, 2020, 55, 2000413.	6.7	2
66	A protocol for a systematic review and meta-analysis of the diagnostic accuracy of mid-regional pro-adrenomedullin in predicting invasive bacterial infection in children. Systematic Reviews, 2020, 9, 69.	5.3	2
67	Bronchiolitis. Clinical Evidence, 2011, 2011, .	0.2	2
68	Performance of a Novel Molecular Method in the Diagnosis of Late-Onset Sepsis in Very Low Birth Weight Infants. PLoS ONE, 2015, 10, e0136472.	2.5	1
69	FACTORS ASSOCIATED WITH IMPROVED CLINICAL CONTROL IN A DIFFICULT-TO-TREAT PAEDIATRIC ASTHMA COHORT THROUGH THE COVID-19 PANDEMIC LOCKDOWN PERIOD. Ulster Medical Journal, 2021, 90, 122-123.	0.2	1
70	Genomic Meningococcal Load in the Nasopharynx of Children with Meningococcal Disease. Pediatric Infectious Disease Journal, 2016, 35, 577-579.	2.0	0
71	Azithromycin for episodes with asthma-like symptoms in young children aged 1â€“3 years. Archives of Disease in Childhood: Education and Practice Edition, 2017, 102, 336.1-336.	0.5	0
72	Exposure and attitudes to adolescent health amongst Paediatric trainees in Northern Ireland: a mixed-methods study. BMJ Paediatrics Open, 2020, 4, e000563.	1.4	0

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73	Loop-mediated isothermal amplification for the early diagnosis of invasive meningococcal disease in children. Archives of Disease in Childhood, 2020, 105, 1151-1156.	1.9	0
74	586â€…Puking less per pound, for acute wheezers: quality improvement in a paediatric emergency department. , 2021, , .		0
75	How evidenced based and up to date are our cough guidelines?. Annals of Translational Medicine, 2017, 5, 149-149.	1.7	0
76	Comparative responses of paediatric airway epithelium to viral and allergen insult. Access Microbiology, 2019, 1, .	0.5	0
77	Identification of novel factors associated with severe respiratory syncytial virus disease in infants. Access Microbiology, 2019, 1, .	0.5	0
78	Title is missing!. , 2020, 15, e0228229.		0
79	Title is missing!. , 2020, 15, e0228229.		0
80	Title is missing!. , 2020, 15, e0228229.		0
81	Title is missing!. , 2020, 15, e0228229.		0