P Andrew Sleigh

List of Publications by Year
in descending order

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61 papers	2,604 citations	147566 31 h-index	189595 50 g-index
64 all docs	64 docs citations	64 times ranked	2913 citing authors

#	Article	IF	Citations
1	Health risks in wastewater irrigation: Comparing estimates from quantitative microbial risk analyses and epidemiological studies. Journal of Water and Health, 2007, 5, 39-50.	1.1	161
2	An unstructured finite-volume algorithm for predicting flow in rivers and estuaries. Computers and Fluids, 1998, 27, 479-508.	1.3	153
3	The ventilation of multiple-bed hospital wards: Review and analysis. American Journal of Infection Control, 2008, 36, 250-259.	1.1	114
4	Modelling the transmission of airborne infections in enclosed spaces. Epidemiology and Infection, 2006, 134, 1082-1091.	1.0	110
5	The use of solar desiccant cooling in the UK: a feasibility study. Applied Thermal Engineering, 2002, 22, 1327-1338.	3.0	98
6	Mathematical models for assessing the role of airflow on the risk of airborne infection in hospital wards. Journal of the Royal Society Interface, 2009, 6, S791-800.	1.5	95
7	The potential for solar powered single-stage desiccant cooling in southern Europe. Applied Thermal Engineering, 2002, 22, 1129-1140.	3.0	91
8	Aerial Dissemination of Clostridium difficilespores. BMC Infectious Diseases, 2008, 8, 7.	1.3	91
9	CFD simulation of airborne pathogen transport due to human activities. Building and Environment, 2011, 46, 2500-2511.	3.0	85
10	Bactericidal action of positive and negative ions in air. BMC Microbiology, 2007, 7, 32.	1.3	83
11	Bioaerosol deposition in single and two-bed hospital rooms: A numerical and experimental study. Building and Environment, 2013, 59, 436-447.	3.0	79
12	Priority water research questions as determined by UK practitioners and policy makersâ˜†. Science of the Total Environment, 2010, 409, 256-266.	3.9	68
13	A first collective validation of global fluvial flood models for major floods in Nigeria and Mozambique. Environmental Research Letters, 2018, 13, 104007.	2.2	66
14	Estimation of norovirus infection risks to consumers of wastewater-irrigated food crops eaten raw. Journal of Water and Health, 2010, 8, 39-43.	1.1	64
15	Modeling environmental contamination in hospital single- and four-bed rooms. Indoor Air, 2015, 25, 694-707.	2.0	61
16	Quantifying the combined effects of multiple extreme floods on river channel geometry and on flood hazards. Journal of Hydrology, 2016, 538, 256-268.	2.3	58
17	Methodology for determining the susceptibility of airborne microorganisms to irradiation by an upper-room UVGI system. Journal of Aerosol Science, 2006, 37, 885-902.	1.8	57
18	Estimating Safely Managed Sanitation in Urban Areas; Lessons Learned From a Global Implementation of Excreta-Flow Diagrams. Frontiers in Environmental Science, 2020, 8, .	1.5	56

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19	The influence of nurse cohorting on hand hygiene effectiveness. American Journal of Infection Control, 2006, 34, 621-626.	1.1	53
20	A theoretical study of the thermal performance of the TermoDeck hollow core slab system. Applied Thermal Engineering, 2002, 22, 1485-1499.	3.0	52
21	Modelling the Performance of Upper Room Ultraviolet Germicidal Irradiation Devices in Ventilated Rooms: Comparison of Analytical and CFD Methods. Indoor and Built Environment, 2004, 13, 477-488.	1.5	50
22	Effects of turbulence modelling on prediction of flow characteristics in a bench-scale anaerobic gas-lift digester. Bioresource Technology, 2013, 138, 297-306.	4.8	50
23	Development of a numerical model to simulate the biological inactivation of airborne microorganisms in the presence of ultraviolet light. Journal of Aerosol Science, 2004, 35, 489-507.	1.8	48
24	The influence of floodplain restoration on flow and sediment dynamics in an urban river. Journal of Flood Risk Management, 2018, 11, S986.	1.6	48
25	2D Process-Based Morphodynamic Model for Flooding by Noncohesive Dyke Breach. Journal of Hydraulic Engineering, 2014, 140, .	0.7	46
26	A quantitative method for evaluating the germicidal effect of upper room UV fields. Journal of Aerosol Science, 2002, 33, 1681-1699.	1.8	41
27	Bioaerosol Production on a Respiratory Ward. Indoor and Built Environment, 2006, 15, 35-40.	1.5	41
28	Use of CFD Modelling to Optimise the Design of Upper-room UVGI Disinfection Systems for Ventilated Rooms. Indoor and Built Environment, 2006, 15, 347-356.	1.5	39
29	Air ionisation and colonisation/infection with methicillin-resistant Staphylococcus aureus and Acinetobacter species in an intensive care unit. Intensive Care Medicine, 2006, 32, 315-317.	3.9	37
30	Use of CFD Analysis in Modifying a TB Ward in Lima, Peru. Indoor and Built Environment, 2006, 15, 41-47.	1.5	35
31	Estimation of norovirus and Ascaris infection risks to urban farmers in developing countries using wastewater for crop irrigation. Journal of Water and Health, 2010, 8, 572-576.	1.1	33
32	Assessment of hydro-morphodynamic modelling and geomorphological impacts of a sediment-charged jÃ¶kulhlaup, at SÃ³lheimajÃ¶kull, Iceland. Journal of Hydrology, 2015, 530, 336-349.	2.3	32
33	Estimation of Ascaris infection risks in children under 15 from the consumption of wastewater-irrigated carrots. Journal of Water and Health, 2010, 8, 35-38.	1.1	28
34	An assessment of, and response to, potential cross-contamination routes due to defective appliance water trap seals in building drainage systems. Building Services Engineering Research and Technology, 2012, 33, 203-222.	0.9	25
35	A robust 2D shallow water model for solving flow over complex topography using homogenous flux method. International Journal for Numerical Methods in Fluids, 2013, 73, 225-249.	0.9	25
36	Field assessment of bacterial communities and total trihalomethanes: Implications for drinking water networks. Science of the Total Environment, 2018, 616-617, 345-354.	3.9	25

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37	Multiple effects of sediment transport and geomorphic processes within flood events: Modelling and understanding. International Journal of Sediment Research, 2015, 30, 371-381.	1.8	24
38	Systematic analysis of uncertainty in 2D flood inundation models. Environmental Modelling and Software, 2019, 122, 104520.	1.9	24
39	Modelling the long-term suspended sedimentological effects on stormwater pond performance in an urban catchment. Journal of Hydrology, 2019, 571, 805-818.	2.3	24
40	Multimode Morphodynamic Model for Sediment-Laden Flows and Geomorphic Impacts. Journal of Hydraulic Engineering, 2015, 141, .	0.7	23
41	Acinetobacter spp. and the Clinical Environment. Indoor and Built Environment, 2006, 15, 19-24.	1.5	21
42	Stress-Particle Smoothed Particle Hydrodynamics: An application to the failure and post-failure behaviour of slopes. Computer Methods in Applied Mechanics and Engineering, 2020, 366, 113034.	3.4	19
43	Effect of negative air ions on the potential for bacterial contamination of plastic medical equipment. BMC Infectious Diseases, 2010, 10, 92.	1.3	17
44	Numerical modeling of converging compound channel flow. ISH Journal of Hydraulic Engineering, 2018, 24, 285-297.	1.1	16
45	Relationship between healthcare worker surface contacts, care type and hand hygiene: an observational study in a single-bed hospital ward. Journal of Hospital Infection, 2016, 94, 48-51.	1.4	15
46	Physical complexity to model morphological changes at a natural channel bend. Water Resources Research, 2016, 52, 6348-6364.	1.7	14
47	Computational fluid dynamics analysis to assess performance variability of in-duct UV-C systems. Science and Technology for the Built Environment, 2015, 21, 45-53.	0.8	13
48	Global flood exposure from different sized rivers. Natural Hazards and Earth System Sciences, 2021, 21, 2829-2847.	1.5	12
49	The Role of Nursing Activities on the Bioaerosol Production in Hospital Wards. Indoor and Built Environment, 2013, 22, 410-421.	1.5	11
50	Modeling fomiteâ€mediated SARSâ€CoVâ€2 exposure through personal protective equipment doffing in a hospital environment. Indoor Air, 2022, 32, .	2.0	10
51	Susceptibility of Burkholderia cepacia and other pathogens of importance in cystic fibrosis to u.v. light. Letters in Applied Microbiology, 2001, 32, 135-138.	1.0	8
52	Effects of water source accessibility and reliability improvements on water consumption in eastern Nairobi. Waterlines, 2017, 36, 204-215.	0.1	5
53	Understanding the costs of urban sanitation: towards a standard costing model. Journal of Water Sanitation and Hygiene for Development, 2020, 10, 642-658.	0.7	5
54	The influence of dust originating from carbon black nanopowders on the explosion characteristics of lean methane/air mixtures within a turbulent environment. Journal of Loss Prevention in the Process Industries, 2018, 55, 61-70.	1.7	4

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55	Urban correction of global DEMs using building density for Nairobi, Kenya. Earth Science Informatics, 2021, 14, 1383-1398.	1.6	4
56	Modelling Mechanically Induced Non-Newtonian Flows to Improve the Energy Efficiency of Anaerobic Digesters. Water (Switzerland), 2020, 12, 2995.	1.2	3
57	Evolution of particle interactions between accidentally released aerosol particles generated from powdered engineered nanomaterials into a simulated workplace atmosphere. Journal of Aerosol Science, 2019, 129, 98-115.	1.8	2
58	Letters to the Editor. Journal of Hospital Infection, 2000, 46, 77-78.	1.4	1
59	An evaluation of the use of interactive approaches and integrated on-line resources. Teaching Mathematics and Its Applications, 2011, 30, 166-177.	0.7	1
60	Evacuation characteristics of released airborne TiO2 nanomaterial particles under different ventilation rates in a confined environment. Journal of Environmental Management, 2019, 233, 417-426.	3.8	1
61	Numerical Unsaturated Flow Model of Railway Drainage Systems. Green Energy and Technology, 2019, , 677-681.	0.4	0