

# Andy Chan

## List of Publications by Year in descending order

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Version: 2024-02-01

109  
papers

4,275  
citations

186265

28  
h-index

114465

63  
g-index

115  
all docs

115  
docs citations

115  
times ranked

5338  
citing authors

| #  | ARTICLE   | IF   | CITATIONS |
|----|---|------|-----------|
| 1  | Smooth particle hydrodynamics for the analysis of stresses in soil around Jack-in Pile. European Journal of Environmental and Civil Engineering, 2022, 26, 94-120.  | 2.1  | 6         |
| 2  | COVID-19 Boon or Bane: A case study of Air pollutant transport in the Yangtze River Delta region and its consequent health effects during the COVID-19 lockdown period. , 2022, , 325-344.  |      | 0         |
| 3  | Modeling the impacts of land use/land cover change on meteorology and air quality during 2000â€“2018 in the Yangtze River Delta region, China. Science of the Total Environment, 2022, 829, 154669.                                 | 8.0  | 16        |
| 4  | An effect of MHD fluid flow heat transfer using CNTs with thermal radiation and heat source/sink across a stretching/shrinking sheet. International Communications in Heat and Mass Transfer, 2022, 135, 106080.                    | 5.6  | 29        |
| 5  | Future-proofing Klang Valleyâ€™s veins with REBET: A framework for directing transportation technologies towards infrastructure resilience. Technological Forecasting and Social Change, 2022, 180, 121666.                         | 11.6 | 3         |
| 6  | Impacts of Lateral Boundary Condition Resolution in Tropical Urban Climate Modelling for Kuala Lumpur. Engineering Journal, 2021, 25, 165-175.  | 1.0  | 0         |
| 7  | A Flipped Classroom. International Journal of Virtual and Personal Learning Environments, 2021, 11, 23-37.  | 0.6  | 4         |
| 8  | Anthropogenic emissions of atomic chlorine precursors in the Yangtze River Delta region, China. Science of the Total Environment, 2021, 771, 144644.  | 8.0  | 10        |
| 9  | Improving prediction of trans-boundary biomass burning plume dispersion: from northern peninsular Southeast Asia to downwind western North Pacific Ocean. Atmospheric Chemistry and Physics, 2021, 21, 12521-12541.                 | 4.9  | 12        |
| 10 | The mechanics of carbon-based nanomaterials as cement reinforcement â€“ A critical review. Construction and Building Materials, 2021, 303, 124441.  | 7.2  | 31        |
| 11 | Impact of the planetary boundary layer on air quality simulations over the Yangtze River Delta region, China. Atmospheric Environment, 2021, 263, 118685.   | 4.1  | 5         |
| 12 | An integration study of microalgae bioactive retention: From microalgae biomass to microalgae bioactives nanoparticle. Food and Chemical Toxicology, 2021, 158, 112607.   | 3.6  | 20        |
| 13 | BIM-VR Framework for Building Information Modelling in Engineering Education. International Journal of Interactive Mobile Technologies, 2020, 14, 15.   | 1.2  | 12        |
| 14 | Sources and trends of oxidized and reduced nitrogen wet deposition in a typical medium-sized city of eastern China during 2010â€“2016. Science of the Total Environment, 2020, 744, 140558.   | 8.0  | 2         |
| 15 | Building Volume Effects on Ambient Temperature In The Kuala Lumpur City. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012011.   | 0.3  | 0         |
| 16 | Analysis of Wind Speed, Humidity and Temperature: Variability and Trend in 2017. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012013.   | 0.3  | 1         |
| 17 | Air quality changes during the COVID-19 lockdown over the Yangtze River Delta Region: An insight into the impact of human activity pattern changes on air pollution variation. Science of the Total Environment, 2020, 732, 139282. | 8.0  | 405       |
| 18 | Modelling of Land-Use/Land-Cover Change and Its Impact On Local Climate of Klang River Basin. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012017.  | 0.3  | 1         |

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|----|---|------|-----------|
| 19 | The Silver Lining of COVID-19: Estimation of Short-Term Health Impacts Due to Lockdown in the Yangtze River Delta Region, China. <i>GeoHealth</i> , 2020, 4, e2020GH000272.   | 4.0  | 25        |
| 20 | Seasonal fluxes and sources apportionment of dissolved inorganic nitrogen wet deposition at different land-use sites in the Three Gorges reservoir area. <i>Ecotoxicology and Environmental Safety</i> , 2020, 193, 110344.                                   | 6.0  | 11        |
| 21 | The Uncharacteristic Occurrence of the June 2013 Biomass-Burning Haze Event in Southeast Asia: Effects of the Madden-Julian Oscillation and Tropical Cyclone Activity. <i>Atmosphere</i> , 2020, 11, 55.  | 2.3  | 8         |
| 22 | Effects of Soil Amendments on Microbial Activities in a Typical Cd-Contaminated Purple Field Soil, Southwestern China. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 104, 380-385.  | 2.7  | 5         |
| 23 | Let us rethink how to teach mathematics using gaming principles. <i>International Journal of Mathematical Education in Science and Technology</i> , 2020, , 1-20.   | 1.4  | 3         |
| 24 | LAND COVER IMPACTS TOWARDS THERMAL VARIATION IN THE KUALA LUMPUR CITY. <i>Journal of Urban and Regional Analysis</i> , 2020, 12, .  | 0.3  | 2         |
| 25 | The role of land use on the local climate and air quality during calm inter-monsoon in a tropical city. <i>Geoscience Frontiers</i> , 2019, 10, 405-415.  | 8.4  | 17        |
| 26 | Effect of graphene doping on the charge carrier and thermoelectric properties of RCF-Bi <sub>2</sub> S <sub>3</sub> composites. <i>AIP Conference Proceedings</i> , 2019, , .   | 0.4  | 7         |
| 27 | Flexible thermoelectric films from electrodeposited Bi <sub>2</sub> Te <sub>3</sub> on recycled carbon fibre-Modulation of Seebeck coefficient by electrode pre-treatment. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 268, 012161. | 0.3  | 2         |
| 28 | Recycled carbon fibre/Bi <sub>2</sub> Te <sub>3</sub> and Bi <sub>2</sub> S <sub>3</sub> hybrid composite doped with MWCNTs for thermoelectric applications. <i>Composites Part B: Engineering</i> , 2019, 175, 107085.                                       | 12.0 | 21        |
| 29 | Nonlinear effects of increasing nitrogen deposition on rice growth and heavy metal uptake in a red soil ecosystem of southeastern China. <i>Science of the Total Environment</i> , 2019, 670, 1060-1067.  | 8.0  | 16        |
| 30 | Exploring the Feasibility of Computer Games in Mathematics Education. , 2019, , .   |      | 2         |
| 31 | Importance of lightning detection network development in Peninsular Malaysia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 385, 012036.  | 0.3  | 1         |
| 32 | The effects of lateral boundary conditions resolution for heat island studies in tropical urban of Kuala Lumpur. <i>IOP Conference Series: Earth and Environmental Science</i> , 2019, 385, 012020.   | 0.3  | 0         |
| 33 | Geospatial Modelling of Watershed Peak Flood Discharge in Selangor, Malaysia. <i>Water (Switzerland)</i> , 2019, 11, 2490.  | 2.7  | 16        |
| 34 | Similarities and Differences in Learning of Metacognitive Skills. <i>International Journal of Game-Based Learning</i> , 2019, 9, 1-14.  | 1.4  | 7         |
| 35 | Increasing atmospheric deposition nitrogen and ammonium reduced microbial activity and changed the bacterial community composition of red paddy soil. <i>Science of the Total Environment</i> , 2018, 633, 776-784.   | 8.0  | 33        |
| 36 | The effects of swirling decaying flow towards pipe entry length and heat transfer in an annular pipe. <i>International Journal of Heat and Mass Transfer</i> , 2018, 123, 668-677.  | 4.8  | 2         |

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|----|--|------|-----------|
| 37 | A unified wall function for compressible turbulence modelling. <i>Journal of Turbulence</i> , 2018, 19, 414-430.   | 1.4  | 3         |
| 38 | Comparison of WRF local and nonlocal boundary layer Physics in Greater Kuala Lumpur, Malaysia. <i>IOP Conference Series: Earth and Environmental Science</i> , 2018, 117, 012015.  | 0.3  | 2         |
| 39 | A Gaming Perspective on Mathematics Education. <i>International Journal of Information and Communication Technology Education</i> , 2018, 14, 85-98.   | 1.0  | 2         |
| 40 | An Integrated Source Apportionment Methodology and Its Application over the Yangtze River Delta Region, China. <i>Environmental Science &amp; Technology</i> , 2018, 52, 14216-14227.  | 10.0 | 31        |
| 41 | Effects of El-Niño, Indian Ocean Dipole, and Madden-Julian Oscillation on Surface Air Temperature and Rainfall Anomalies over Southeast Asia in 2015. <i>Atmosphere</i> , 2018, 9, 352.  | 2.3  | 23        |
| 42 | Cost effective thermoelectric composites from recycled carbon fibre: From waste to energy. <i>Journal of Cleaner Production</i> , 2018, 195, 1015-1025.  | 9.3  | 34        |
| 43 | A comparison of various approaches used in source apportionments for precipitation nitrogen in a mountain region of southwest China. <i>Environmental Pollution</i> , 2018, 241, 810-820.  | 7.5  | 20        |
| 44 | Land Covers and Climate Impacts on Land Surface Temperature in Putrajaya, Malaysia. <i>Asian Journal of Environment-Behaviour Studies</i> , 2018, 3, 78-88.  | 0.1  | 0         |
| 45 | Impact of urbanization level on the interactions of urban area, the urban climate, and human thermal comfort. <i>Applied Geography</i> , 2017, 79, 50-72.  | 3.7  | 67        |
| 46 | Numerical study on effect of urban heating on local climate during calm inter-monsoon period in greater Kuala Lumpur, Malaysia. <i>Urban Climate</i> , 2017, 20, 228-250.  | 5.7  | 12        |
| 47 | Process optimisation for n-type Bi <sub>2</sub> Te <sub>3</sub> films electrodeposited on flexible recycled carbon fibre using response surface methodology. <i>Journal of Materials Science</i> , 2017, 52, 11467-11481.                          | 3.7  | 18        |
| 48 | Impact of socioeconomic and meteorological factors on reservoirs' air quality: a case in the Three Gorges Reservoir of Chongqing (TGRC), China over a 10-year period. <i>Environmental Science and Pollution Research</i> , 2017, 24, 16206-16219. | 5.3  | 10        |
| 49 | Urbanisation and urban climate of a tropical conurbation, Klang Valley, Malaysia. <i>Urban Climate</i> , 2017, 19, 54-71.  | 5.7  | 25        |
| 50 | Recent progress in solar thermal energy storage using nanomaterials. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 450-460.  | 16.4 | 115       |
| 51 | Interaction of Urban Heating and Local Winds During the Calm Intermonsoon Seasons in the Tropics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 11,499.   | 3.3  | 13        |
| 52 | Numerical Study of the Transport and Convective Mechanisms of Biomass Burning Haze in South-Southeast Asia. <i>Aerosol and Air Quality Research</i> , 2016, 16, 2950-2963.   | 2.1  | 13        |
| 53 | Impact of Manufacturing Transfer on SO <sub>2</sub> Emissions in Jiangsu Province, China. <i>Atmosphere</i> , 2016, 7, 69.   | 2.3  | 11        |
| 54 | Study of graphene nanolubricant using thermogravimetric analysis. <i>Journal of Materials Research</i> , 2016, 31, 1939-1946.  | 2.6  | 17        |

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|----|--|------|-----------|
| 55 | Fluid dynamics and heat transfer investigations of swirling decaying flow in an annular pipe Part 2: Fluid flow. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 1012-1028.   | 4.8  | 17        |
| 56 | Effect of vegetation and waterbody on the garden city concept: An evaluation study using a newly developed city, Putrajaya, Malaysia. <i>Computers, Environment and Urban Systems</i> , 2016, 58, 39-51.                                     | 7.1  | 39        |
| 57 | Heat transfer and tribological performance of graphene nanolubricant in an internal combustion engine. <i>Tribology International</i> , 2016, 103, 504-515.  | 5.9  | 97        |
| 58 | A pressure-based Mach-uniform method for viscous fluid flows. <i>International Journal of Computational Fluid Dynamics</i> , 2016, 30, 516-530.  | 1.2  | 3         |
| 59 | Graphene based nanofluids and nanolubricants – Review of recent developments. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 346-362.   | 16.4 | 222       |
| 60 | Effect of Annealing on Virgin and Recycled Carbon Fiber Electrochemically Deposited with N-type Bismuth Telluride and Bismuth Sulfide. <i>Materials and Manufacturing Processes</i> , 2016, 31, 1223-1231.                                   | 4.7  | 9         |
| 61 | Numerical study on the urbanisation of Putrajaya and its interaction with the local climate, over a decade. <i>Urban Climate</i> , 2016, 16, 1-24.   | 5.7  | 32        |
| 62 | Fluid dynamics and heat transfer investigations of swirling decaying flow in an annular pipe Part 1: Review, problem description, verification and validation. <i>International Journal of Heat and Mass Transfer</i> , 2016, 97, 1029-1043. | 4.8  | 25        |
| 63 | Validation and Visualization of Decaying Vortex Flow in an Annulus. <i>Energy Procedia</i> , 2015, 75, 3098-3104.  | 1.8  | 3         |
| 64 | MHD Flow Of Walters™ Liquid B Over A Nonlinearly Stretching Sheet. <i>International Journal of Applied Mechanics and Engineering</i> , 2015, 20, 589-603.  | 0.7  | 9         |
| 65 | Computational study of urban heat island of Putrajaya, Malaysia. <i>Sustainable Cities and Society</i> , 2015, 19, 359-372.  | 10.4 | 39        |
| 66 | Weather Research Forecast (WRF) modification of land surface albedo simulations for urban Near Surface Temperature. , 2015, , .  |      | 3         |
| 67 | Assessment of hydrologic impacts of climate change on the runoff trend in Klang Watershed, Malaysia. <i>Environmental Earth Sciences</i> , 2015, 73, 27-37.  | 2.7  | 35        |
| 68 | Effects of atmospheric deposition nitrogen flux and its composition on soil solution chemistry from a red soil farmland, southeast China. <i>Environmental Sciences: Processes and Impacts</i> , 2015, 17, 2082-2091.                        | 3.5  | 3         |
| 69 | Integrating Weather Research and Forecasting Model, Noah Land Surface Model and Urban Canopy Model for Urban Heat Island Effect Assessment. <i>British Journal of Environment and Climate Change</i> , 2015, 5, 231-253.                     | 0.3  | 4         |
| 70 | Functional relation of land surface albedo with climatological variables: a review on remote sensing techniques and recent research developments. <i>Geocarto International</i> , 2014, 29, 147-163.   | 3.5  | 5         |
| 71 | Suction-induced magnetohydrodynamics of a viscoelastic fluid over a stretching surface within a porous medium. <i>IMA Journal of Applied Mathematics</i> , 2014, 79, 445-458.  | 1.6  | 29        |
| 72 | Long-term atmospheric wet deposition of dissolved organic nitrogen in a typical red-soil agro-ecosystem, Southeastern China. <i>Environmental Sciences: Processes and Impacts</i> , 2014, 16, 1050.  | 3.5  | 6         |

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|----|---|------|-----------|
| 73 | CFD study of distillation sieve tray flow regimes using the droplet size distribution technique. Journal of the Taiwan Institute of Chemical Engineers, 2014, 45, 1354-1368.                          | 5.3  | 19        |
| 74 | Factors Contributing to the Formation of an Urban Heat Island in Putrajaya, Malaysia. Procedia, Social and Behavioral Sciences, 2013, 105, 840-850.   | 0.5  | 29        |
| 75 | Use of recycled carbon fibre as a heating element. Journal of Composite Materials, 2013, 47, 2039-2050.   | 2.4  | 22        |
| 76 | N-type thermoelectric recycled carbon fibre sheet with electrochemically deposited Bi <sub>2</sub> Te <sub>3</sub> . , 2012, , .  |      | 0         |
| 77 | An Analytical Study of Weakly Nonlinear Dynamics of a Waltersâ€™™ Liquid B around a Flexible Sheet Undergoing Super Linear Stretching. ISRN Applied Mathematics, 2012, 2012, 1-13.                    | 0.5  | 0         |
| 78 | Air quality parameters dependency of remotely-sensed albedo. , 2012, , .  |      | 1         |
| 79 | N-type thermoelectric recycled carbon fibre sheet with electrochemically deposited Bi <sub>2</sub> Te <sub>3</sub> . Journal of Solid State Chemistry, 2012, 193, 147-153.                            | 2.9  | 25        |
| 80 | Atmospheric inorganic nitrogen in wet deposition to a red soil farmland in Southeast China, 2005â€™–2009. Plant and Soil, 2012, 359, 387-395.   | 3.7  | 12        |
| 81 | Atmospheric NO <sub>2</sub> and NH <sub>3</sub> deposition into a typical agro-ecosystem in Southeast China. Journal of Environmental Monitoring, 2011, 13, 3216.                                     | 2.1  | 9         |
| 82 | Thermoelectrical properties of intercalated recycled carbon fibre composite. Composites Part A: Applied Science and Manufacturing, 2011, 42, 1406-1411.   | 7.6  | 23        |
| 83 | Large eddy simulation of the aerodynamic effects of trees on pollutant concentrations in street canyons. Procedia Environmental Sciences, 2011, 4, 17-24.   | 1.4  | 10        |
| 84 | An experimental set-up for investigating swirling decaying flow in an annular pipe. International Communications in Heat and Mass Transfer, 2011, 38, 1253-1261.                                      | 5.6  | 8         |
| 85 | Urban morphology and air quality in dense residential environments in Hong Kong. Part I: District-level analysis. Atmospheric Environment, 2011, 45, 4789-4803.                                       | 4.1  | 100       |
| 86 | Analysis of local scale treeâ€™–atmosphere interaction on pollutant concentration in idealized street canyons and application to a real urban junction. Atmospheric Environment, 2011, 45, 1702-1713. | 4.1  | 189       |
| 87 | Numerical simulation of atmospheric pollutant dispersion in an urban street canyon: Comparison between RANS and LES. Journal of Wind Engineering and Industrial Aerodynamics, 2011, 99, 103-113.      | 3.9  | 221       |
| 88 | Numerical simulation of dispersion in urban street canyons with avenue-like tree plantings: Comparison between RANS and LES. Building and Environment, 2011, 46, 1735-1746.                           | 6.9  | 114       |
| 89 | The Value of Clean Air in High-Density Urban Areas. , 2011, , 113-128.  |      | 2         |
| 90 | Large-eddy simulations of particle sedimentation in a longitudinal sedimentation basin of a water treatment plant. Part 2: The effects of baffles. Chemical Engineering Journal, 2009, 152, 315-321.  | 12.7 | 27        |

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|-----|---|------|-----------|
| 91  | Large-eddy simulations of particle sedimentation in a longitudinal sedimentation basin of a water treatment plant. Part I: Particle settling performance. Chemical Engineering Journal, 2009, 152, 307-314. | 12.7 | 40        |
| 92  | Large-Eddy Simulations on Indoor/Outdoor Air Quality Relationship in an Isolated Urban Building. Journal of Engineering Mechanics - ASCE, 2007, 133, 887-898.   | 2.9  | 5         |
| 93  | Statistical models for the prediction of respirable suspended particulate matter in urban cities. Atmospheric Environment, 2006, 40, 2068-2077.   | 4.1  | 129       |
| 94  | Analytical Study of Turbulent Pollutant Dispersion near a Low Hill. Journal of Engineering Mechanics - ASCE, 2006, 132, 99-106.   | 2.9  | 5         |
| 95  | Implementing building energy codes in Hong Kong: energy savings, environmental impacts and cost. Energy and Buildings, 2005, 37, 631-642.   | 6.7  | 51        |
| 96  | Large-eddy simulations of wind flow and pollutant dispersion in a street canyon. Atmospheric Environment, 2005, 39, 3573-3582.  | 4.1  | 40        |
| 97  | Evidence of Airborne Transmission of the Severe Acute Respiratory Syndrome Virus. New England Journal of Medicine, 2004, 350, 1731-1739.  | 27.0 | 1,045     |
| 98  | Management of Radon in Tunnel Drilling. Journal of Construction Engineering and Management - ASCE, 2004, 130, 699-707.  | 3.8  | 1         |
| 99  | Strategic guidelines for street canyon geometry to achieve sustainable street air quality” part II: multiple canopies and canyons. Atmospheric Environment, 2003, 37, 2761-2772.                            | 4.1  | 84        |
| 100 | Commuter exposure and indoor”outdoor relationships of carbon oxides in buses in Hong Kong. Atmospheric Environment, 2003, 37, 3809-3815.  | 4.1  | 27        |
| 101 | Indoor”outdoor air quality relationships in vehicle: effect of driving environment and ventilation modes. Atmospheric Environment, 2003, 37, 3795-3808.   | 4.1  | 62        |
| 102 | Indoor”outdoor relationships of particulate matter and nitrogen oxides under different outdoor meteorological conditions. Atmospheric Environment, 2002, 36, 1543-1551.                                     | 4.1  | 85        |
| 103 | Wave characteristics past a flexible fishnet. Ocean Engineering, 2001, 28, 1517-1529.   | 4.3  | 20        |
| 104 | Atmospheric turbulent boundary layer development due to a change in surface roughness. International Journal of Engineering Science, 2001, 39, 2001-2014.   | 5.0  | 3         |
| 105 | Strategic guidelines for street canyon geometry to achieve sustainable street air quality. Atmospheric Environment, 2001, 35, 4089-4098.  | 4.1  | 70        |
| 106 | Scattering of Oblique Surface Waves by Permeable Barriers. Journal of Waterway, Port, Coastal and Ocean Engineering, 2000, 126, 196-205.  | 1.2  | 42        |
| 107 | Statistical Modeling for One Hour Rainfall Data in Kuala Lumpur and Selangor. Advanced Materials Research, 0, 1030-1032, 665-668.   | 0.3  | 0         |
| 108 | ALBEDO PATTERN RECOGNITION AND TIME-SERIES ANALYSES IN MALAYSIA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXIX-B7, 235-240.      | 0.2  | 5         |

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|-----|--|-----|-----------|
| 109 | Investigation of radiation and MHD on non-Newtonian fluid flow over a stretching/shrinking sheet with CNTs and mass transpiration. <i>Waves in Random and Complex Media</i> , 0, , 1-20. | 2.7 | 16        |