

Andy Chan

List of Publications by Year in descending order

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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	Evidence of Airborne Transmission of the Severe Acute Respiratory Syndrome Virus. <i>New England Journal of Medicine</i> , 2004, 350, 1731-1739.	27.0	1,045
2	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. <i>Science of the Total Environment</i> , 2020, 732, 139282.	8.0	405
3	Graphene based nanofluids and nanolubricants – Review of recent developments. <i>Renewable and Sustainable Energy Reviews</i> , 2016, 63, 346-362.	16.4	222
4	Numerical simulation of atmospheric pollutant dispersion in an urban street canyon: Comparison between RANS and LES. <i>Journal of Wind Engineering and Industrial Aerodynamics</i> , 2011, 99, 103-113.	3.9	221
5	Analysis of local scale tree-atmosphere interaction on pollutant concentration in idealized street canyons and application to a real urban junction. <i>Atmospheric Environment</i> , 2011, 45, 1702-1713.	4.1	189
6	Statistical models for the prediction of respirable suspended particulate matter in urban cities. <i>Atmospheric Environment</i> , 2006, 40, 2068-2077.	4.1	129
7	Recent progress in solar thermal energy storage using nanomaterials. <i>Renewable and Sustainable Energy Reviews</i> , 2017, 67, 450-460.	16.4	115
8	Numerical simulation of dispersion in urban street canyons with avenue-like tree plantings: Comparison between RANS and LES. <i>Building and Environment</i> , 2011, 46, 1735-1746.	6.9	114
9	Urban morphology and air quality in dense residential environments in Hong Kong. Part I: District-level analysis. <i>Atmospheric Environment</i> , 2011, 45, 4789-4803.	4.1	100
10	Heat transfer and tribological performance of graphene nanolubricant in an internal combustion engine. <i>Tribology International</i> , 2016, 103, 504-515.	5.9	97
11	Indoor-outdoor relationships of particulate matter and nitrogen oxides under different outdoor meteorological conditions. <i>Atmospheric Environment</i> , 2002, 36, 1543-1551.	4.1	85
12	Strategic guidelines for street canyon geometry to achieve sustainable street air quality – part II: multiple canopies and canyons. <i>Atmospheric Environment</i> , 2003, 37, 2761-2772.	4.1	84
13	Strategic guidelines for street canyon geometry to achieve sustainable street air quality. <i>Atmospheric Environment</i> , 2001, 35, 4089-4098.	4.1	70
14	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
15	Indoor-outdoor air quality relationships in vehicle: effect of driving environment and ventilation modes. <i>Atmospheric Environment</i> , 2003, 37, 3795-3808.	4.1	62
16	Implementing building energy codes in Hong Kong: energy savings, environmental impacts and cost. <i>Energy and Buildings</i> , 2005, 37, 631-642.	6.7	51
17	Scattering of Oblique Surface Waves by Permeable Barriers. <i>Journal of Waterway, Port, Coastal and Ocean Engineering</i> , 2000, 126, 196-205.	1.2	42
18	Large-eddy simulations of wind flow and pollutant dispersion in a street canyon. <i>Atmospheric Environment</i> , 2005, 39, 3573-3582.	4.1	40

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19	Large-eddy simulations of particle sedimentation in a longitudinal sedimentation basin of a water treatment plant. Part I: Particle settling performance. <i>Chemical Engineering Journal</i> , 2009, 152, 307-314.	12.7	40
20	Computational study of urban heat island of Putrajaya, Malaysia. <i>Sustainable Cities and Society</i> , 2015, 19, 359-372.	10.4	39
21	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
22	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
23	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
24	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
25	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
26	An Integrated Source Apportionment Methodology and Its Application over the Yangtze River Delta Region, China. <i>Environmental Science & Technology</i> , 2018, 52, 14216-14227.	10.0	31
27	The mechanics of carbon-based nanomaterials as cement reinforcement – A critical review. <i>Construction and Building Materials</i> , 2021, 303, 124441.	7.2	31
28	Factors Contributing to the Formation of an Urban Heat Island in Putrajaya, Malaysia. <i>Procedia, Social and Behavioral Sciences</i> , 2013, 105, 840-850.	0.5	29
29	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
30	An effect of MHD fluid flow heat transfer using CNTs with thermal radiation and heat source/sink across a stretching/shrinking sheet. <i>International Communications in Heat and Mass Transfer</i> , 2022, 135, 106080.	5.6	29
31	Commuter exposure and indoor-outdoor relationships of carbon oxides in buses in Hong Kong. <i>Atmospheric Environment</i> , 2003, 37, 3809-3815.	4.1	27
32	Large-eddy simulations of particle sedimentation in a longitudinal sedimentation basin of a water treatment plant. Part 2: The effects of baffles. <i>Chemical Engineering Journal</i> , 2009, 152, 315-321.	12.7	27
33	N-type thermoelectric recycled carbon fibre sheet with electrochemically deposited Bi ₂ Te ₃ . <i>Journal of Solid State Chemistry</i> , 2012, 193, 147-153.	2.9	25
34	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
35	Urbanisation and urban climate of a tropical conurbation, Klang Valley, Malaysia. <i>Urban Climate</i> , 2017, 19, 54-71.	5.7	25
36	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

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37	Thermoelectrical properties of intercalated recycled carbon fibre composite. <i>Composites Part A: Applied Science and Manufacturing</i> , 2011, 42, 1406-1411.	7.6	23
38	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
39	Use of recycled carbon fibre as a heating element. <i>Journal of Composite Materials</i> , 2013, 47, 2039-2050.	2.4	22
40	Recycled carbon fibre/Bi ₂ Te ₃ and Bi ₂ S ₃ hybrid composite doped with MWCNTs for thermoelectric applications. <i>Composites Part B: Engineering</i> , 2019, 175, 107085.	12.0	21
41	Wave characteristics past a flexible fishnet. <i>Ocean Engineering</i> , 2001, 28, 1517-1529.	4.3	20
42	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
43	An integration study of microalgae bioactive retention: From microalgae biomass to microalgae bioactives nanoparticle. <i>Food and Chemical Toxicology</i> , 2021, 158, 112607.	3.6	20
44	CFD study of distillation sieve tray flow regimes using the droplet size distribution technique. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2014, 45, 1354-1368.	5.3	19
45	Process optimisation for n-type Bi ₂ Te ₃ films electrodeposited on flexible recycled carbon fibre using response surface methodology. <i>Journal of Materials Science</i> , 2017, 52, 11467-11481.	3.7	18
46	Study of graphene nanolubricant using thermogravimetric analysis. <i>Journal of Materials Research</i> , 2016, 31, 1939-1946.	2.6	17
47	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
48	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
49	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
50	Geospatial Modelling of Watershed Peak Flood Discharge in Selangor, Malaysia. <i>Water (Switzerland)</i> , 2019, 11, 2490.	2.7	16
51	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
52	Modeling the impacts of land use/land cover change on meteorology and air quality during 2000–2018 in the Yangtze River Delta region, China. <i>Science of the Total Environment</i> , 2022, 829, 154669.	8.0	16
53	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
54	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

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55	Atmospheric inorganic nitrogen in wet deposition to a red soil farmland in Southeast China, 2005–2009. <i>Plant and Soil</i> , 2012, 359, 387-395.	3.7	12
56	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
57	BIM-VR Framework for Building Information Modelling in Engineering Education. <i>International Journal of Interactive Mobile Technologies</i> , 2020, 14, 15.	1.2	12
58	Improving prediction of trans-boundary biomass burning plume dispersion: from northern peninsular Southeast Asia to downwind western North Pacific Ocean. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 12521-12541.	4.9	12
59	Impact of Manufacturing Transfer on SO ₂ Emissions in Jiangsu Province, China. <i>Atmosphere</i> , 2016, 7, 69.	2.3	11
60	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
61	Large eddy simulation of the aerodynamic effects of trees on pollutant concentrations in street canyons. <i>Procedia Environmental Sciences</i> , 2011, 4, 17-24.	1.4	10
62	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
63	Anthropogenic emissions of atomic chlorine precursors in the Yangtze River Delta region, China. <i>Science of the Total Environment</i> , 2021, 771, 144644.	8.0	10
64	Atmospheric NO ₂ and NH ₃ deposition into a typical agro-ecosystem in Southeast China. <i>Journal of Environmental Monitoring</i> , 2011, 13, 3216.	2.1	9
65	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
66	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
67	An experimental set-up for investigating swirling decaying flow in an annular pipe. <i>International Communications in Heat and Mass Transfer</i> , 2011, 38, 1253-1261.	5.6	8
68	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
69	Effect of graphene doping on the charge carrier and thermoelectric properties of RCF-Bi ₂ S ₃ composites. <i>AIP Conference Proceedings</i> , 2019, , .	0.4	7
70	Similarities and Differences in Learning of Metacognitive Skills. <i>International Journal of Game-Based Learning</i> , 2019, 9, 1-14.	1.4	7
71	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
72	Smooth particle hydrodynamics for the analysis of stresses in soil around Jack-in Pile. <i>European Journal of Environmental and Civil Engineering</i> , 2022, 26, 94-120.	2.1	6

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73	Analytical Study of Turbulent Pollutant Dispersion near a Low Hill. Journal of Engineering Mechanics - ASCE, 2006, 132, 99-106.	2.9	5
74	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
75	Functional relation of land surface albedo with climatological variables: a review on remote sensing techniques and recent research developments. Geocarto International, 2014, 29, 147-163.	3.5	5
76	Effects of Soil Amendments on Microbial Activities in a Typical Cd-Contaminated Purple Field Soil, Southwestern China. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 380-385.	2.7	5
77	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
78	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
79	A Flipped Classroom. International Journal of Virtual and Personal Learning Environments, 2021, 11, 23-37.	0.6	4
80	Integrating Weather Research and Forecasting Model, Noah Land Surface Model and Urban Canopy Model for Urban Heat Island Effect Assessment. British Journal of Environment and Climate Change, 2015, 5, 231-253.	0.3	4
81	Atmospheric turbulent boundary layer development due to a change in surface roughness. International Journal of Engineering Science, 2001, 39, 2001-2014.	5.0	3
82	Validation and Visualization of Decaying Vortex Flow in an Annulus. Energy Procedia, 2015, 75, 3098-3104.	1.8	3
83	Weather Research Forecast (WRF) modification of land surface albedo simulations for urban Near Surface Temperature. , 2015, , .		3
84	Effects of atmospheric deposition nitrogen flux and its composition on soil solution chemistry from a red soil farmland, southeast China. Environmental Sciences: Processes and Impacts, 2015, 17, 2082-2091.	3.5	3
85	A pressure-based Mach-uniform method for viscous fluid flows. International Journal of Computational Fluid Dynamics, 2016, 30, 516-530.	1.2	3
86	A unified wall function for compressible turbulence modelling. Journal of Turbulence, 2018, 19, 414-430.	1.4	3
87	Let us rethink how to teach mathematics using gaming principles. International Journal of Mathematical Education in Science and Technology, 2020, , 1-20.	1.4	3
88	Future-proofing Klang Valley's veins with REBET: A framework for directing transportation technologies towards infrastructure resilience. Technological Forecasting and Social Change, 2022, 180, 121666.	11.6	3
89	The effects of swirling decaying flow towards pipe entry length and heat transfer in an annular pipe. International Journal of Heat and Mass Transfer, 2018, 123, 668-677.	4.8	2
90	Comparison of WRF local and nonlocal boundary layer Physics in Greater Kuala Lumpur, Malaysia. IOP Conference Series: Earth and Environmental Science, 2018, 117, 012015.	0.3	2

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91	A Gaming Perspective on Mathematics Education. International Journal of Information and Communication Technology Education, 2018, 14, 85-98.	1.0	2
92	Flexible thermoelectric films from electrodeposited Bi ₂ Te ₃ on recycled carbon fibre-Modulation of Seebeck coefficient by electrode pre-treatment. IOP Conference Series: Earth and Environmental Science, 2019, 268, 012161.	0.3	2
93	Exploring the Feasibility of Computer Games in Mathematics Education. , 2019, , .		2
94	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
95	The Value of Clean Air in High-Density Urban Areas. , 2011, , 113-128.		2
96	LAND COVER IMPACTS TOWARDS THERMAL VARIATION IN THE KUALA LUMPUR CITY. Journal of Urban and Regional Analysis, 2020, 12, .	0.3	2
97	Management of Radon in Tunnel Drilling. Journal of Construction Engineering and Management - ASCE, 2004, 130, 699-707.	3.8	1
98	Air quality parameters dependency of remotely-sensed albedo. , 2012, , .		1
99	Importance of lightning detection network development in Peninsular Malaysia. IOP Conference Series: Earth and Environmental Science, 2019, 385, 012036.	0.3	1
100	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
101	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
102	N-type thermoelectric recycled carbon fibre sheet with electrochemically deposited Bi ₂ Te ₃ . , 2012, , .		0
103	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
104	Statistical Modeling for One Hour Rainfall Data in Kuala Lumpur and Selangor. Advanced Materials Research, 0, 1030-1032, 665-668.	0.3	0
105	The effects of lateral boundary conditions resolution for heat island studies in tropical urban of Kuala Lumpur. IOP Conference Series: Earth and Environmental Science, 2019, 385, 012020.	0.3	0
106	Building Volume Effects on Ambient Temperature In The Kuala Lumpur City. IOP Conference Series: Earth and Environmental Science, 2020, 489, 012011.	0.3	0
107	Impacts of Lateral Boundary Condition Resolution in Tropical Urban Climate Modelling for Kuala Lumpur. Engineering Journal, 2021, 25, 165-175.	1.0	0
108	Land Covers and Climate Impacts on Land Surface Temperature in Putrajaya, Malaysia. Asian Journal of Environment-Behaviour Studies, 2018, 3, 78-88.	0.1	0

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109	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