Khai Ching Ng

List of Publications by Year
in descending order

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63 papers	1,260 citations	331259 21 h-index	395343 33 g-index
63 all docs	63 docs citations	63 times ranked	1030 citing authors

#	Article	IF	Citations
1	Modelling road traffic congestion at urban merge section under mixed traffic conditions. Proceedings of the Institution of Civil Engineers: Transport, 2024, 177, 3-19.	0.3	3
2	Mixed traffic driver behavioral modeling at urban merge section: an experimental study. Transportation Letters, 2022, 14, 752-777.	1.8	4
3	Modelling integrated movements of motorcycles at urban merge sections under mixed traffic conditions. Transportmetrica B, 2022, 10, 441-467.	1.4	3
4	An improved particle method for simulating Fluid-Structure Interactions: The multi-resolution SPH-VCPM approach. Ocean Engineering, 2022, 247, 110779.	1.9	11
5	Modeling Lane-Changing Behavior of Vehicles at Merge Section under Mixed Traffic Conditions. Journal of Transportation Engineering Part A: Systems, 2021, 147, .	0.8	3
6	How to Modify LAMMPS: From the Prospective of a Particle Method Researcher. ChemEngineering, 2021, 5, 30.	1.0	5
7	A refined Moving Particle Pressure Mesh (MPPM) method for solving incompressible Navier-stokes equations. Computers and Fluids, 2021, 226, 104993.	1.3	0
8	Numerical computation of fluidâ€“solid mixture flow using the SPHâ€“VCPMâ€“DEM method. Journal of Fluids and Structures, 2021, 106, 103369.	1.5	14
9	Numerical and experimental investigations of hybrid nanofluids on pulsating heat pipe performance. International Journal of Heat and Mass Transfer, 2020, 146, 118887.	2.5	78
10	Assessment of Smoothed Particle Hydrodynamics (SPH) models for predicting wall heat transfer rate at complex boundary. Engineering Analysis With Boundary Elements, 2020, 111, 195-205.	2.0	20
11	A coupled Smoothed Particle Hydrodynamics-Volume Compensated Particle Method (SPH-VCPM) for Fluid Structure Interaction (FSI) modelling. Ocean Engineering, 2020, 218, 107923.	1.9	19
12	A review on development and applications of element-free galerkin methods in computational fluid dynamics. International Journal for Computational Methods in Engineering Science and Mechanics, 2020, 21, 252-275.	1.4	2
13	Simulation Strategies for Mixed Traffic Conditions: A Review of Car-Following Models and Simulation Frameworks. Journal of Engineering (United States), 2020, 2020, 1-22.	0.5	29
14	State-of-the-art heat transfer fluids for parabolic trough collector. International Journal of Heat and Mass Transfer, 2020, 152, 119541.	2.5	124
15	Enhancing the thermal properties of organic phase change material (palmitic acid) by doping MXene nanoflakes. AIP Conference Proceedings, 2020, , .	0.3	7
16	Fatty acid/metal ion composite as thermal energy storage materials. SN Applied Sciences, 2020, 2, 1.	1.5	22
17	The potential influence of building optimization and passive design strategies on natural ventilation systems in underground buildings: The state of the art. Tunnelling and Underground Space Technology, 2019, 92, 103065.	3.0	40
18	A new higher-order RBF-FD scheme with optimal variable shape parameter for partial differential equation. Numerical Heat Transfer, Part B: Fundamentals, 2019, 75, 289-311.	0.6	6

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19	Validation of finite element model of human lumbar vertebrae under mechanical forces. AIP Conference Proceedings, 2019, , .	0.3	1
20	Fluid-solid conjugate heat transfer modelling using weakly compressible smoothed particle hydrodynamics. International Journal of Mechanical Sciences, 2019, 151, 772-784.	3.6	18
21	A new high-order particle method for solving high Reynolds number incompressible flows. Computational Particle Mechanics, 2019, 6, 343-370.	1.5	2
22	IMPROVEMENT OF WEAKLY COMPRESSIBLE SPH METHOD FOR TURBULENT FREE SURFACE FLOWS. Journal of Japan Society of Civil Engineers Ser B1 (Hydraulic Engineering), 2019, 75, I_583-I_588.	0.0	2
23	Passive thermal performance prediction and multi-objective optimization of naturally-ventilated underground shelter in Malaysia. Renewable Energy, 2018, 123, 342-352.	4.3	20
24	Design optimization for ventilation shafts of naturally-ventilated underground shelters for improvement of ventilation rate and thermal comfort. Renewable Energy, 2018, 115, 183-198.	4.3	32
25	High-order particle method for solving incompressible Navierâ€“Stokes equations within a mixed Lagrangianâ€“Eulerian framework. Computer Methods in Applied Mechanics and Engineering, 2017, 325, 77-101.	3.4	21
26	Refined energy-conserving dissipative particle dynamics model with temperature-dependent properties and its application in solidification problem. Physical Review E, 2017, 96, 043302.	0.8	8
27	An improved particle smoothing procedure for Laplacian operator in a randomly scattered cloud. Numerical Heat Transfer, Part B: Fundamentals, 2016, 70, 111-135.	0.6	3
28	Numerical heat and mass transfer analysis of a cross-flow indirect evaporative cooler with plates and flat tubes. Heat and Mass Transfer, 2016, 52, 1765-1777.	1.2	21
29	Unstructured Moving Particle Pressure Mesh (UMPPM) method for incompressible isothermal and non-isothermal flow computation. Computer Methods in Applied Mechanics and Engineering, 2016, 305, 703-738.	3.4	13
30	Moving Particle Level-Set (MPLS) method for incompressible multiphase flow computation. Computer Physics Communications, 2015, 196, 317-334.	3.0	26
31	Numerical and experimental investigations on the heat transfer enhancement in corrugated channels using SiO2â€“water nanofluid. Case Studies in Thermal Engineering, 2015, 6, 77-92.	2.8	89
32	Numerical investigations on the turbulent forced convection of nanofluids flow in a triangular-corrugated channel. Case Studies in Thermal Engineering, 2015, 6, 212-225.	2.8	22
33	A NUMERICALLY CONSISTENT MULTIPHASE POISEUILLE FLOW COMPUTATION BY A NEW PARTICLE METHOD. Jurnal Teknologi (Sciences and Engineering), 2015, 76, .	0.3	2
34	The effects of wavy-wall phase shift on thermal-hydraulic performance of Al2O3â€“water nanofluid flow in sinusoidal-wavy channel. Case Studies in Thermal Engineering, 2014, 4, 153-165.	2.8	24
35	Effect of corrugation profile on the thermalâ€“hydraulic performance of corrugated channels using CuOâ€“water nanofluid. Case Studies in Thermal Engineering, 2014, 4, 65-75.	2.8	34
36	On the accuracy assessment of Laplacian models in MPS. Computer Physics Communications, 2014, 185, 2412-2426.	3.0	36

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37	Laminar mixing performances of baffling, shaft eccentricity and unsteady mixing in a cylindrical vessel. Chemical Engineering Science, 2013, 104, 960-974.	1.9	29
38	Particle simulation and flow sequence on drainage of liquid particles. Computers and Mathematics With Applications, 2013, 66, 1437-1451.	1.4	5
39	The study of pressure source term in moving particle semi-implicit (MPS). IOP Conference Series: Earth and Environmental Science, 2013, 16, 012152.	0.2	1
40	Development of a Lagrangian Meshless Flow Solver based on the Moving Particle Semi-implicit (MPS) Method. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012151.	0.2	2
41	Lagrangian Simulation of Steady and Unsteady Laminar Mixing by Plate Impeller in a Cylindrical Vessel. Industrial & Engineering Chemistry Research, 2013, 52, 10004-10014.	1.8	16
42	2002â€“2012: 10 Years of Research Progress in Horizontal-Axis Marine Current Turbines. Energies, 2013, 6, 1497-1526.	1.6	65
43	A numerical study of laminar forced convection flow of Al2O3-water nanofluid in triangular-corrugated channel. IOP Conference Series: Earth and Environmental Science, 2013, 16, 012149.	0.2	2
44	An entropy generation and genetic algorithm optimization of two-bed adsorption cooling cycle. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2012, 226, 142-156.	1.4	10
45	On the effect of turbulent intensity towards the accuracy of the zero-equation turbulence model for indoor airflow application. Building and Environment, 2011, 46, 82-88.	3.0	7
46	DNS of wavepacket evolution in a Blasius boundary layer. Journal of Fluid Mechanics, 2010, 652, 333-372.	1.4	34
47	A collocated finite volume embedding method for simulation of flow past stationary and moving body. Computers and Fluids, 2009, 38, 347-357.	1.3	14
48	Effect of Pressure on the Adsorption Rate for Gasoline Vapor on Pitch-Based Activated Carbon. Journal of Chemical & Engineering Data, 2009, 54, 1504-1509.	1.0	11
49	Applications of high-resolution schemes based on normalized variable formulation for 3D indoor airflow simulations. International Journal for Numerical Methods in Engineering, 2008, 73, 948-981.	1.5	13
50	Response surface models for CFD predictions of air diffusion performance index in a displacement ventilated office. Energy and Buildings, 2008, 40, 774-781.	3.1	54
51	Adsorption characteristics of parent and copper-sputtered RD silica gels. Philosophical Magazine, 2007, 87, 1113-1121.	0.7	6
52	Specific heat capacity of a single component adsorbent-adsorbate system. Applied Physics Letters, 2007, 90, 171902.	1.5	48
53	Thin-Film Thermoelectric Cooler: Thermodynamic Modelling and its Temperatureâ€”entropy Flux Formulation. Proceedings of the Institution of Mechanical Engineers, Part E: Journal of Process Mechanical Engineering, 2007, 221, 33-46.	1.4	9
54	Numerical Simulation of 3D Transonic Flow in a Compressor Rotor. International Journal of Modelling and Simulation, 2007, 27, 74-79.	2.3	2

#	ARTICLE	IF	CITATIONS
55	Higher-order bounded differencing schemes for compressible and incompressible flows. International Journal for Numerical Methods in Fluids, 2007, 53, 57-80.	0.9	27
56	Parametric Study of an Improved Gamma Differencing Scheme Based on Normalized-Variable Formulation for Low-Speed Flow With Artificial Compressibility Technique. Numerical Heat Transfer, Part B: Fundamentals, 2006, 50, 561-584.	0.6	4
57	Multigrid solution of Euler equations using high-resolution NVD differencing scheme for unstructured meshes. Progress in Computational Fluid Dynamics, 2006, 6, 389.	0.1	7
58	The Electro-Adsorption Chiller: Performance Rating of a Novel Miniaturized Cooling Cycle for Electronics Cooling. Journal of Heat Transfer, 2006, 128, 889-896.	1.2	28
59	Performance modelling of an electro-adsorption chiller. Philosophical Magazine, 2006, 86, 3613-3632.	0.7	27
60	Simulations of Two-dimensional High Speed Turbulent Compressible Flow in a Diffuser and a Nozzle Blade Cascade. American Journal of Applied Sciences, 2005, 2, 1325-1330.	0.1	3
61	Investigation on the isotherm of silica gel+water systems. Journal of Thermal Analysis and Calorimetry, 2004, 76, 659-669.	2.0	67
62	A two-stage cuboid-styled thermoelectric cooler with switched polarity. , 0, , .		4
63	Simulation of Unsteady Incompressible Flow Using a New Particle Method. Applied Mechanics and Materials, 0, 819, 326-329.	0.2	1