# Guan Heng Yeoh

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/8848414/publications.pdf

Version: 2024-02-01

| | | | |
|---|---|---|---|
| 309 papers | 8,278 citations | 53794 45 h-index | 91884 69 g-index |
| 318 all docs | 318 docs citations | 318 times ranked | 5774 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Numerical modeling of wet steam infused fluid mixture for potential fire suppression applications. Experimental and Computational Multiphase Flow, 2023, 5, 142-148. | 3.9 | 3 |
| 2 | Numerical assessment of LES subgrid-scale turbulence models for expandable particles in fire suppression. Experimental and Computational Multiphase Flow, 2023, 5, 99-110. | 3.9 | 5 |
| 3 | Numerical study on using vortex flow to improve smoke exhaust efficiency in large-scale atrium fires. Indoor and Built Environment, 2023, 32, 98-115. | 2.8 | 2 |
| 4 | Soot: A review of computational models at different length scales. Experimental and Computational Multiphase Flow, 2023, 5, 1-14. | 3.9 | 2 |
| 5 | Numerical investigation of expandable graphite suppression on metal-based fire. Heat and Mass Transfer, 2022, 58, 65-81. | 2.1 | 9 |
| 6 | Multiphase CFD modelling for enclosure firesâ€"A review on past studies and future perspectives. Experimental and Computational Multiphase Flow, 2022, 4, 1-25. | 3.9 | 13 |
| 7 | Three-Dimensional Simulation of Vapor Bubble Growth in Superheated Water Due to the Convective Action by an Interface Tracking Method. Journal of Fluids Engineering, Transactions of the ASME, 2022, 144, . | 1.5 | 2 |
| 8 | Optimization of swirler type dry powder inhaler device design â€“ Numerical investigation on the effect of dimple shape, inlet configuration and mouthpiece constriction. Journal of Aerosol Science, 2022, 159, 105893. | 3.8 | 2 |
| 9 | Computational investigation of particle penetration and deposition pattern in a realistic respiratory tract model from different types of dry powder inhalers. International Journal of Pharmaceutics, 2022, 612, 121293. | 5.2 | 9 |
| 10 | Synergistic effect of additives on electrical resistivity, fire and smoke suppression of silicone rubber for high voltage insulation. Composites Communications, 2022, 29, 101045. | 6.3 | 16 |
| 11 | Three-dimensional numerical simulation of air-flow in inkjet print-zones. International Journal of Heat and Fluid Flow, 2022, 93, 108911. | 2.4 | 4 |
| 12 | Laser ignition of iso-octane and n-heptane jets under compression-ignition conditions. Fuel, 2022, 311, 122555. | 6.4 | 5 |
| 13 | A Large-Eddy Simulation study on the effect of fuel configuration and pan distance towards chemical species for under-ventilated compartment fire scenario. International Journal of Heat and Mass Transfer, 2022, 184, 122306. | 4.8 | 6 |
| 14 | An Investigation towards Coupling Molecular Dynamics with Computational Fluid Dynamics for Modelling Polymer Pyrolysis. Molecules, 2022, 27, 292. | 3.8 | 12 |
| 15 | Structure evolution of nanodiamond aggregates: a SANS and USANS study. Journal of Applied Crystallography, 2022, 55, 353-361. | 4.5 | 2 |
| 16 | Fire-retarded nanocomposite aerogels for multifunctional applications: A review. Composites Part B: Engineering, 2022, 237, 109866. | 12.0 | 28 |
| 17 | Developing a solid decomposition kinetics extraction framework for detailed chemistry pyrolysis and combustion modelling of building polymer composites. Journal of Analytical and Applied Pyrolysis, 2022, 163, 105500. | 5.5 | 13 |
| 18 | Pyrolysis and combustion characterisation of HDPE/APP composites via molecular dynamics and CFD simulations. Journal of Analytical and Applied Pyrolysis, 2022, 163, 105499. | 5.5 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Synthesis of zinc porphyrin complex for improving mechanical, UV-resistance, thermal stability and fire safety properties of polystyrene. Chemical Engineering Journal, 2022, 442, 136367. | 12.7 | 26 |
| 20 | Synergistic effects of tubular halloysite clay and zirconium phosphate on thermal behavior of intumescent coating for structural steel. Journal of Materials Research and Technology, 2022, 18, 4456-4469. | 5.8 | 3 |
| 21 | Atomistic characterisation of graphite oxidation and thermal decomposition mechanism under isothermal and Non-Isothermal heating scheme. Computational Materials Science, 2022, 210, 111458. | 3.0 | 2 |
| 22 | A parametric study of autoigniting hydrogen jets under compression-ignition engine conditions. International Journal of Hydrogen Energy, 2022, 47, 21307-21322. | 7.1 | 7 |
| 23 | Integration of Computational Fluid Dynamics and Artificial Neural Network for Optimization Design of Battery Thermal Management System. Batteries, 2022, 8, 69. | 4.5 | 26 |
| 24 | Numerical investigation on the thermal management of lithium-ion battery system and cooling effect optimization. Applied Thermal Engineering, 2022, 215, 118966. | 6.0 | 25 |
| 25 | Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. Journal of Hazardous Materials, 2021, 401, 123342. | 12.4 | 151 |
| 26 | Alginate/Polymer-Based Materials for Fire Retardancy: Synthesis, Structure, Properties, and Applications. Polymer Reviews, 2021, 61, 357-414. | 10.9 | 38 |
| 27 | Characterisation of pyrolysis kinetics and detailed gas species formations of engineering polymers via reactive molecular dynamics (ReaxFF). Journal of Analytical and Applied Pyrolysis, 2021, 153, 104931. | 5.5 | 26 |
| 28 | Improved flame-retardant properties of polydimethylsiloxane/multi-walled carbon nanotube nanocomposites. Journal of Materials Science, 2021, 56, 2192-2211. | 3.7 | 18 |
| 29 | Underwater sound absorption properties of polydimethylsiloxane/carbon nanotube composites with steel plate backing. Applied Acoustics, 2021, 171, 107668. | 3.3 | 24 |
| 30 | Performance and emissions of hydrogen-diesel dual direct injection (H2DDI) in a single-cylinder compression-ignition engine. International Journal of Hydrogen Energy, 2021, 46, 1302-1314. | 7.1 | 57 |
| 31 | A novel stochastic approach to study water droplet/flame interaction of water mist systems. Numerical Heat Transfer; Part A: Applications, 2021, 79, 570-593. | 2.1 | 10 |
| 32 | Experimental and numerical perspective on the fire performance of MXene/Chitosan/Phytic acid coated flexible polyurethane foam. Scientific Reports, 2021, 11, 4684. | 3.3 | 24 |
| 33 | Heat Generation in Irradiated Gold Nanoparticle Solutions for Hyperthermia Applications. Processes, 2021, 9, 368. | 2.8 | 4 |
| 34 | Evaluating the fire risk associated with cladding panels: An overview of fire incidents, policies, and future perspective in fire standards. Fire and Materials, 2021, 45, 663-689. | 2.0 | 27 |
| 35 | A review on polymer-based materials for underwater sound absorption. Polymer Testing, 2021, 96, 107115. | 4.8 | 60 |
| 36 | Simulation of competitive and cooperative egress movements on the crowd emergency evacuation. Simulation Modelling Practice and Theory, 2021, 109, 102309. | 3.8 | 15 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Development of an evacuation model considering the impact of stress variation on evacuees under fire emergency. Safety Science, 2021, 138, 105232. | 4.9 | 24 |
| 38 | Effects of expandable graphite on char morphology and pyrolysis of epoxy based intumescent fireâ€retardant coating. Journal of Applied Polymer Science, 2021, 138, 51206. | 2.6 | 5 |
| 39 | Fire-Resistant Flexible Polyurethane Foams via Nature-Inspired Chitosan-Expandable Graphite Coatings. ACS Applied Polymer Materials, 2021, 3, 4079-4087. | 4.4 | 21 |
| 40 | Wet or dry multifunctional coating prepared by visible light polymerisation with fire retardant, thermal protective, and antimicrobial properties. Cellulose, 2021, 28, 8821-8840. | 4.9 | 6 |
| 41 | Study of structure morphology and layer thickness of Ti3C2 MXene with Small-Angle Neutron Scattering (SANS). Composites Part C: Open Access, 2021, 5, 100155. | 3.2 | 17 |
| 42 | Flame Retardancy and Excellent Electrical Insulation Performance of RTV Silicone Rubber. Polymers, 2021, 13, 2854. | 4.5 | 12 |
| 43 | BODIPY coated on MXene nanosheets for improving mechanical and fire safety properties of ABS resin. Composites Part B: Engineering, 2021, 223, 109130. | 12.0 | 70 |
| 44 | Ignition and flame stabilisation of primary reference fuel sprays at engine-relevant conditions. Combustion and Flame, 2021, 233, 111620. | 5.2 | 11 |
| 45 | A Review on Lithium-Ion Battery Separators towards Enhanced Safety Performances and Modelling Approaches. Molecules, 2021, 26, 478. | 3.8 | 49 |
| 46 | Peanut Shell Derived Carbon Combined with Nano Cobalt: An Effective Flame Retardant for Epoxy Resin. Molecules, 2021, 26, 6662. | 3.8 | 5 |
| 47 | Co-Combustion Characteristics and Kinetics of Microalgae Chlorella Vulgaris and Coal through TGA. Combustion Science and Technology, 2020, 192, 26-45. | 2.3 | 9 |
| 48 | Characterisation of soot particle size distribution through population balance approach and soot diagnostic techniques for a buoyant non-premixed flame. Journal of the Energy Institute, 2020, 93, 112-128. | 5.3 | 16 |
| 49 | 3-Way coupled thermohydraulic-discrete element-neutronic simulation of solid fuel, molten salt reactor. Annals of Nuclear Energy, 2020, 135, 106973. | 1.8 | 3 |
| 50 | Flow patterns and pressure gradient correlation for oilâ€“water coreâ€“annular flow in horizontal pipes. Experimental and Computational Multiphase Flow, 2020, 2, 99-108. | 3.9 | 15 |
| 51 | MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. Journal of Hazardous Materials, 2020, 381, 120952. | 12.4 | 174 |
| 52 | Critical assessment on operating water droplet sizes for fire sprinkler and water mist systems. Journal of Building Engineering, 2020, 28, 100999. | 3.4 | 26 |
| 53 | Morphology and internal structure of soot particles under the influence of jetâ€“swirl and jetâ€“jet interactions in a diesel combustion environment. Combustion and Flame, 2020, 214, 25-36. | 5.2 | 9 |
| 54 | Utilising genetic algorithm to optimise pyrolysis kinetics for fire modelling and characterisation of chitosan/graphene oxide polyurethane composites. Composites Part B: Engineering, 2020, 182, 107619. | 12.0 | 51 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Study of Ignition and Combustion Characteristics of Consecutive Injections with iso-Octane and n-Heptane as Fuels. Energy & Fuels, 2020, 34, 14741-14756. | 5.1 | 10 |
| 56 | Spray and Combustion Characteristics of Gasoline-like Fuel under Compression-Ignition Conditions. Energy & Fuels, 2020, 34, 16585-16598. | 5.1 | 6 |
| 57 | Visualization of hydrogen jet evolution and combustion under simulated direct-injection compression-ignition engine conditions. International Journal of Hydrogen Energy, 2020, 45, 32562-32578. | 7.1 | 27 |
| 58 | Enhanced dielectric and thermal performance by fabricating coalesced network of alumina trihydrate/boron nitride in silicone rubber for electrical insulation. Bulletin of Materials Science, 2020, 43, 1. | 1.7 | 14 |
| 59 | Real-time monitoring of heat transfer between gold nanoparticles and tethered bilayer lipid membranes. Biochimica Et Biophysica Acta - Biomembranes, 2020, 1862, 183334. | 2.6 | 4 |
| 60 | Capturing the Swirling Vortex and the Impact of Ventilation Conditions on Small-Scale Fire Whirls. Applied Sciences (Switzerland), 2020, 10, 3428. | 2.5 | 5 |
| 61 | Simulation and Experimental Investigation on Carbonized Tracking Failure of EPDM/BN-Based Electrical Insulation. Polymers, 2020, 12, 582. | 4.5 | 13 |
| 62 | Characterization of choking flow behaviors inside steam ejectors based on the ejector refrigeration system. International Journal of Refrigeration, 2020, 113, 296-307. | 3.4 | 26 |
| 63 | Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. Composites Part B: Engineering, 2020, 188, 107875. | 12.0 | 111 |
| 64 | Numerical Study of the Comparison of Symmetrical and Asymmetrical Eddy-Generation Scheme on the Fire Whirl Formulation and Evolution. Applied Sciences (Switzerland), 2020, 10, 318. | 2.5 | 6 |
| 65 | In Memoriam - Graham de Vahl Davis. International Journal of Heat and Mass Transfer, 2020, 152, 119486. | 4.8 | 0 |
| 66 | Investigation of door width towards flame tilting behaviours and combustion species in compartment fire scenarios using large eddy simulation. International Journal of Heat and Mass Transfer, 2020, 150, 119373. | 4.8 | 18 |
| 67 | PDMS/MWCNT nanocomposite films for underwater sound absorption applications. Journal of Materials Science, 2020, 55, 5048-5063. | 3.7 | 27 |
| 68 | Numerical Study of Surface Regression of a Flame Retarded Expandable Polystrene. Lecture Notes in Civil Engineering, 2020, , 149-158. | 0.4 | 1 |
| 69 | Nanoparticles of polydopamine for improving mechanical and flame-retardant properties of an epoxy resin. Composites Part B: Engineering, 2020, 186, 107828. | 12.0 | 70 |
| 70 | Electrical Field Modeling and Tracking Performance of RTV Silicone Rubber Composite Insulation. , 2020, , . | | 0 |
| 71 | Tethered Bilayer Lipid Membranes to Monitor Heat Transfer between Gold Nanoparticles and Lipid Membranes. Journal of Visualized Experiments, 2020, , . | 0.3 | 3 |
| 72 | Effect of micro-nano additives on breakdown, surface tracking and mechanical performance of ethylene propylene diene monomer for high voltage insulation. Journal of Materials Science: Materials in Electronics, 2019, 30, 14061-14071. | 2.2 | 19 |

| # | Article | IF | Citations |
|---|---|---|---|
| 73 | Flameâ€“Wall Interaction Effects on Diesel Post-injection Combustion and Soot Formation Processes. Energy & Fuels, 2019, 33, 7759-7769. | 5.1 | 20 |
| 74 | A Steam Ejector Refrigeration System Powered by Engine Combustion Waste Heat: Part 1. Characterization of the Internal Flow Structure. Applied Sciences (Switzerland), 2019, 9, 4275. | 2.5 | 5 |
| 75 | Modeling the Response of Magnetorheological Fluid Dampers under Seismic Conditions. Applied Sciences (Switzerland), 2019, 9, 4189. | 2.5 | 15 |
| 76 | Investigation on Dry Band Arcing Induced Tracking Failure on Nanocomposites of EPDM Matrix. , 2019, , . | | 1 |
| 77 | Effects of flame-plane wall impingement on diesel combustion and soot processes. Fuel, 2019, 255, 115726. | 6.4 | 28 |
| 78 | An investigation on thermal performance of wollastonite and bentonite reinforced intumescent fire-retardant coating for steel structures. Construction and Building Materials, 2019, 228, 116734. | 7.2 | 31 |
| 79 | A review on the development of nuclear power reactors. Energy Procedia, 2019, 160, 459-466. | 1.8 | 54 |
| 80 | Influence of Eddy-Generation Mechanism on the Characteristic of On-Source Fire Whirl. Applied Sciences (Switzerland), 2019, 9, 3989. | 2.5 | 11 |
| 81 | Application of LED-based thermographic phosphorescent technique to diesel combustion chamber walls in a pre-burn-type optical constant-volume vessel. Experiments in Fluids, 2019, 60, 1. | 2.4 | 8 |
| 82 | Functionalization of MXene Nanosheets for Polystyrene towards High Thermal Stability and Flame Retardant Properties. Polymers, 2019, 11, 976. | 4.5 | 93 |
| 83 | Recent progress in bio-based aerogel absorbents for oil/water separation. Cellulose, 2019, 26, 6449-6476. | 4.9 | 102 |
| 84 | Special Issue on Nanofluids and Their Applications. Applied Sciences (Switzerland), 2019, 9, 1476. | 2.5 | 0 |
| 85 | Computational Study of Wet Steam Flow to Optimize Steam Ejector Efficiency for Potential Fire Suppression Application. Applied Sciences (Switzerland), 2019, 9, 1486. | 2.5 | 18 |
| 86 | Natural Ventilated Smoke Control Simulation Case Study Using Different Settings of Smoke Vents and Curtains in a Large Atrium. Fire, 2019, 2, 7. | 2.8 | 20 |
| 87 | Fire Risk Assessment of Combustible Exterior Cladding Using a Collective Numerical Database. Fire, 2019, 2, 11. | 2.8 | 44 |
| 88 | Sensitivity Analysis of Key Parameters for Population Balance Based Soot Model for Low-Speed Diffusion Flames. Energies, 2019, 12, 910. | 3.1 | 8 |
| 89 | Thermal hydraulic considerations of nuclear reactor systems: Past, present and future challenges. Experimental and Computational Multiphase Flow, 2019, 1, 3-27. | 3.9 | 62 |
| 90 | Effects of radiation on turbulent natural convection in channel flows. International Journal of Heat and Fluid Flow, 2019, 77, 122-133. | 2.4 | 9 |

| # | Article | IF | Citations |
|---|---|---|---|
| 91 | Interface decoration of exfoliated MXene ultra-thin nanosheets for fire and smoke suppressions of thermoplastic polyurethane elastomer. Journal of Hazardous Materials, 2019, 374, 110-119. | 12.4 | 301 |
| 92 | Pectin-assisted dispersion of exfoliated boron nitride nanosheets for assembled bio-composite aerogels. Composites Part A: Applied Science and Manufacturing, 2019, 119, 196-205. | 7.6 | 29 |
| 93 | â€œSlower is Fasterâ€•by Considering of Give-way Evacuation Behavior. , 2019, , . | | 1 |
| 94 | A Review of Hydrogen Direct Injection for Internal Combustion Engines: Towards Carbon-Free Combustion. Applied Sciences (Switzerland), 2019, 9, 4842. | 2.5 | 204 |
| 95 | A Steam Ejector Refrigeration System Powered by Engine Combustion Waste Heat: Part 2. Understanding the Nature of the Shock Wave Structure. Applied Sciences (Switzerland), 2019, 9, 4435. | 2.5 | 7 |
| 96 | Impact characteristics and stagnation formation on a solid surface by a supersonic abrasive waterjet. International Journal of Extreme Manufacturing, 2019, 1, 045004. | 12.7 | 6 |
| 97 | Color-ratio pyrometry methods for flameâ€“wall impingement study. Journal of the Energy Institute, 2019, 92, 1968-1976. | 5.3 | 18 |
| 98 | Numerical investigation on the bubble size distribution around NACA0015 hydrofoil. Ocean Engineering, 2019, 172, 59-71. | 4.3 | 5 |
| 99 | Gravity-Driven Bubble Rise Simulation. , 2019, , 1-37. | | 1 |
| 100 | Australian Journal of Mechanical Engineering. Australian Journal of Mechanical Engineering, 2018, 16, 1-1. | 2.1 | 0 |
| 101 | Flooding prediction of counter-current flow in a vertical tube with non-axisymmetric disturbance waves. Annals of Nuclear Energy, 2018, 114, 616-623. | 1.8 | 0 |
| 102 | Bubble flow simulations using the intersection marker (ISM) interface tracking method. International Journal of Numerical Methods for Heat and Fluid Flow, 2018, 28, 118-137. | 2.8 | 8 |
| 103 | Numerical study of the development and angular speed of a small-scale fire whirl. Journal of Computational Science, 2018, 27, 21-34. | 2.9 | 30 |
| 104 | Manufacturing, mechanical and flame retardant properties of poly(lactic acid) biocomposites based on calcium magnesium phytate and carbon nanotubes. Composites Part A: Applied Science and Manufacturing, 2018, 110, 227-236. | 7.6 | 136 |
| 105 | Combustion characterization of waste cooking oil and canola oil based biodiesels under simulated engine conditions. Fuel, 2018, 224, 167-177. | 6.4 | 44 |
| 106 | Effect of after injections on late cycle soot oxidation in a small-bore diesel engine. Combustion and Flame, 2018, 191, 513-526. | 5.2 | 25 |
| 107 | A CFD-based comparative analysis of drying in various single biomass particles. Applied Thermal Engineering, 2018, 128, 1062-1073. | 6.0 | 17 |
| 108 | Numerical study of fire spread using the level-set method with large eddy simulation incorporating detailed chemical kinetics gas-phase combustion model. Journal of Computational Science, 2018, 24, 8-23. | 2.9 | 33 |

| # | Article | IF | Citations |
|---|---|---|---|
| 109 | A study of the micro-hole geometry evolution on glass by abrasive air-jet micromachining. Journal of Manufacturing Processes, 2018, 31, 156-161. | 5.9 | 28 |
| 110 | Surface Manipulation of Thermal-Exfoliated Hexagonal Boron Nitride with Polyaniline for Improving Thermal Stability and Fire Safety Performance of Polymeric Materials. ACS Omega, 2018, 3, 14942-14952. | 3.5 | 37 |
| 111 | CFD investigation of sub-cooled boiling flow using a mechanistic wall heat partitioning approach with Wet-Steam properties. Journal of Computational Multiphase Flows, 2018, 10, 239-258. | 0.8 | 3 |
| 112 | Novel 3D Network Architectured Hybrid Aerogel Comprising Epoxy, Graphene, and Hydroxylated Boron Nitride Nanosheets. ACS Applied Materials & Interfaces, 2018, 10, 40032-40043. | 8.0 | 45 |
| 113 | Establishing pyrolysis kinetics for the modelling of the flammability and burning characteristics of solid combustible materials. Journal of Fire Sciences, 2018, 36, 494-517. | 2.0 | 39 |
| 114 | Synthesis of anhydrous manganese hypophosphite microtubes for simultaneous flame retardant and mechanical enhancement on poly(lactic acid). Composites Science and Technology, 2018, 164, 44-50. | 7.8 | 47 |
| 115 | Study of Morphology and Optical Properties of Gold Nanoparticle Aggregates under Different pH Conditions. Langmuir, 2018, 34, 10340-10352. | 3.5 | 14 |
| 116 | Predicting the fire spread rate of a sloped pine needle board utilizing pyrolysis modelling with detailed gas-phase combustion. International Journal of Heat and Mass Transfer, 2018, 125, 310-322. | 4.8 | 36 |
| 117 | Comparative Studies on Thermal, Mechanical, and Flame Retardant Properties of PBT Nanocomposites via Different Oxidation State Phosphorus-Containing Agents Modified Amino-CNTs. Nanomaterials, 2018, 8, 70. | 4.1 | 26 |
| 118 | Spray and Combustion Investigation of Post Injections under Low-Temperature Combustion Conditions with Biodiesel. Energy & Fuels, 2018, 32, 8727-8742. | 5.1 | 31 |
| 119 | Perturbation scheme for estimating uncertainties in thermal scattering cross sections of water. Annals of Nuclear Energy, 2018, 121, 232-249. | 1.8 | 4 |
| 120 | The Effect of Gold Nanorods Clustering on Near-Infrared Radiation Absorption. Applied Sciences (Switzerland), 2018, 8, 1132. | 2.5 | 21 |
| 121 | Methodologies for Processing Fixed Bed Combustor Data. Combustion Science and Technology, 2017, 189, 79-102. | 2.3 | 9 |
| 122 | Influence of turbulent fluctuations on radiation heat transfer, NO and soot formation under ECN Spray A conditions. Proceedings of the Combustion Institute, 2017, 36, 3551-3558. | 3.9 | 26 |
| 123 | Modeling combustion under engine combustion network Spray A conditions with multiple injections using the transported probability density function method. International Journal of Engine Research, 2017, 18, 6-14. | 2.3 | 26 |
| 124 | Numerical Modeling of Magnetic Nanoparticle and Carrier Fluid Interactions Under Static and Double-Shear Flows. IEEE Nanotechnology Magazine, 2017, 16, 798-805. | 2.0 | 12 |
| 125 | Air staging strategies in biomass combustion-gaseous and particulate emission reduction potentials. Fuel Processing Technology, 2017, 157, 29-41. | 7.2 | 50 |
| 126 | Synthesis of phosphorus-containing silane coupling agent for surface modification of glass fibers: Effective reinforcement and flame retardancy in poly(1,4-butylene terephthalate). Chemical Engineering Journal, 2017, 321, 257-267. | 12.7 | 71 |

| # | Article | IF | Citations |
|---|---|---|---|
| 127 | Investigation of the Influence of Elevated Pressure on Subcooled Boiling Flowâ€"Model Evaluation Toward Generic Approach. Journal of Heat Transfer, 2017, 139, . | 2.1 | 4 |
| 128 | Comparison of detailed soot formation models for sooty and non-sooty flames in an under-ventilated ISO room. International Journal of Heat and Mass Transfer, 2017, 115, 717-729. | 4.8 | 39 |
| 129 | Australian Journal of Mechanical Engineering. Australian Journal of Mechanical Engineering, 2017, 15, 73-73. | 2.1 | 0 |
| 130 | On the influences of key modelling constants of large eddy simulations forÂlarge-scale compartment fires predictions. International Journal of Computational Fluid Dynamics, 2017, 31, 324-337. | 1.2 | 32 |
| 131 | Editorial â€“ Australian Journal of Mechanical Engineering. Australian Journal of Mechanical Engineering, 2017, 15, 1-1. | 2.1 | 1 |
| 132 | Numerical investigation of formation and dissolution of CO2 bubbles within silicone oil in a cross-junction microchannel. Microfluidics and Nanofluidics, 2017, 21, 1. | 2.2 | 10 |
| 133 | Numerical investigation on the performance of coalescence and break-up kernels in subcooled boiling flows in vertical channels. Journal of Computational Multiphase Flows, 2017, 9, 71-85. | 0.8 | 1 |
| 134 | A CFD model for the coupling of multiphase, multicomponent and mass transfer physics for micro-scale simulations. International Journal of Heat and Mass Transfer, 2017, 113, 922-934. | 4.8 | 13 |
| 135 | Study on flame retarded flexible polyurethane foam/alumina aerogel composites with improved fire safety. Chemical Engineering Journal, 2017, 311, 310-317. | 12.7 | 82 |
| 136 | Emissions characteristics of NO x and SO 2 in the combustion of microalgae biomass using a tube furnace. Journal of the Energy Institute, 2017, 90, 806-812. | 5.3 | 28 |
| 137 | Effect of jetâ€"jet interactions on soot formation in a small-bore diesel engine. Proceedings of the Combustion Institute, 2017, 36, 3559-3566. | 3.9 | 20 |
| 138 | An experimental study into the effect of air staging distribution and position on emissions in a laboratory scale biomass combustor. Energy, 2017, 118, 1243-1255. | 8.8 | 28 |
| 139 | Heat Generation in Gold Nanorods Solutions due to Absorption of Near-Infrared Radiation. , 2017, , . | | 2 |
| 140 | Using CFD as Preventative Maintenance Tool for the Cold Neutron Source Thermosiphon System. Science and Technology of Nuclear Installations, 2016, 2016, 1-11. | 0.8 | 1 |
| 141 | Is comparison with experimental data a reasonable method of validating computational models?. Journal of Physics: Conference Series, 2016, 745, 032022. | 0.4 | 2 |
| 142 | The intersection marker method for 3D interface tracking of deformable surfaces in finite volumes. International Journal for Numerical Methods in Fluids, 2016, 81, 220-244. | 1.6 | 9 |
| 143 | Computational fluid dynamics and population balance modelling of nucleate boiling of cryogenic liquids: Theoretical developments. Journal of Computational Multiphase Flows, 2016, 8, 178-200. | 0.8 | 8 |
| 144 | Numerical modelling of magnetic nanoparticle and carrier fluid interactions. , 2016, , . | | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 145 | An algorithm to calculate interfacial area for multiphase mass transfer through the volume-of-fluid method. International Journal of Heat and Mass Transfer, 2016, 100, 573-581. | 4.8 | 50 |
| 146 | Thermal-hydraulic modelling of the Cold Neutron Source thermosiphon system. Annals of Nuclear Energy, 2016, 90, 135-147. | 1.8 | 5 |
| 147 | Effect of intake air temperature and common-rail pressure on ethanol combustion in a single-cylinder light-duty diesel engine. Fuel, 2016, 180, 9-19. | 6.4 | 44 |
| 148 | Study of three LES subgrid-scale turbulence models for predictions of heat and mass transfer in large-scale compartment fires. Numerical Heat Transfer; Part A: Applications, 2016, 69, 1223-1241. | 2.1 | 28 |
| 149 | Automated determination of size and morphology information from soot transmission electron microscope (TEM)-generated images. Journal of Nanoparticle Research, 2016, 18, 1. | 1.9 | 30 |
| 150 | High order accurate dual-phase-lag numerical model for microscopic heating in multiple domains. International Communications in Heat and Mass Transfer, 2016, 78, 21-28. | 5.6 | 5 |
| 151 | Improved volume-of-fluid (VOF) model for predictions of velocity fields and droplet lengths in microchannels. Flow Measurement and Instrumentation, 2016, 51, 105-115. | 2.0 | 23 |
| 152 | A rapid co-culture stamping device for studying intercellular communication. Scientific Reports, 2016, 6, 35618. | 3.3 | 12 |
| 153 | Effect of heat loss on turbulent buoyancy-driven flow in a rectangular cavity using the large-eddy simulation. Numerical Heat Transfer; Part A: Applications, 2016, 70, 689-706. | 2.1 | 5 |
| 154 | Effect of freeboard deflectors in the fixed bed combustion of biomass. Applied Thermal Engineering, 2016, 103, 543-552. | 6.0 | 27 |
| 155 | Three-dimensional modeling of flow and deformation in idealized mild and moderate arterial vessels. Computer Methods in Biomechanics and Biomedical Engineering, 2016, 19, 1395-1408. | 1.6 | 1 |
| 156 | External irradiation effect on the growth and evolution of in-flame soot species. Carbon, 2016, 102, 161-171. | 10.3 | 20 |
| 157 | Importance of detailed chemical kinetics on combustion and soot modelling of ventilated and under-ventilated fires in compartment. International Journal of Heat and Mass Transfer, 2016, 96, 171-188. | 4.8 | 48 |
| 158 | Enhanced mechanical and barrier properties of polyurethane nanocomposite films with randomly distributed molybdenum disulfide nanosheets. Composites Science and Technology, 2016, 127, 142-148. | 7.8 | 47 |
| 159 | Numerical investigation on the velocity fields during droplet formation in a microfluidic T-junction. Chemical Engineering Science, 2016, 139, 99-108. | 3.8 | 50 |
| 160 | Numerical and experimental investigation of unsteady natural convection in a non-uniformly heated vertical open-ended channel. International Journal of Thermal Sciences, 2016, 99, 9-25. | 4.9 | 32 |
| 161 | Basic Theory and Conceptual Framework of Multiphase Flows. , 2016, , 1-47. | | 2 |
| 162 | LES and Multi-Step Chemical Reaction in Compartment Fires. Numerical Heat Transfer; Part A: Applications, 2015, 68, 711-736. | 2.1 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 163 | On Computational Fluid Dynamics Study of Magnetic Drug Targeting. Journal of Computational Multiphase Flows, 2015, 7, 43-56. | 0.8 | 12 |
| 164 | On numerical study of calcium sulphate fouling under sub-cooled flow boiling conditions. Applied Thermal Engineering, 2015, 81, 18-27. | 6.0 | 16 |
| 165 | Structural evolution of soot particles during diesel combustion in a single-cylinder light-duty engine. Combustion and Flame, 2015, 162, 2720-2728. | 5.2 | 53 |
| 166 | An overview of processes and considerations in the modelling ofÂfixed-bed biomass combustion. Energy, 2015, 88, 946-972. | 8.8 | 106 |
| 167 | Numerical Study of Bubbly Flow Using the Second-Order Moment Turbulence Model and the Population Balance Method. Numerical Heat Transfer; Part A: Applications, 2015, 68, 1220-1241. | 2.1 | 1 |
| 168 | Effectiveness of microbubble removal in an airtrap with a free surface interface. Journal of Biomechanics, 2015, 48, 1237-1240. | 2.1 | 4 |
| 169 | Comparative Analysis of Coalescence and Breakage Kernels in Vertical Gasâ€Liquid Flow. Canadian Journal of Chemical Engineering, 2015, 93, 1295-1310. | 1.7 | 11 |
| 170 | Effect of freeboard deflectors on the temperature distribution inÂpacked beds. Applied Thermal Engineering, 2015, 89, 134-143. | 6.0 | 12 |
| 171 | Flow-induced stress on adherent cells in microfluidic devices. Lab on A Chip, 2015, 15, 4114-4127. | 6.0 | 111 |
| 172 | Large Eddy Simulation of turbulent buoyancy-driven flow withÂalternating staggered heating walls. Applied Thermal Engineering, 2015, 89, 558-568. | 6.0 | 6 |
| 173 | Modeling subcooled flow boiling in vertical channels at low pressures â€“ Part 2: Evaluation of mechanistic approach. International Journal of Heat and Mass Transfer, 2014, 75, 754-768. | 4.8 | 39 |
| 174 | Fire scene reconstruction of a furnished compartment room in a house fire. Case Studies in Fire Safety, 2014, 1, 29-35. | 1.0 | 23 |
| 175 | Fire scene investigation of an arson fire incident using computational fluid dynamics based fire simulation. Building Simulation, 2014, 7, 477-487. | 5.6 | 30 |
| 176 | Transient analysis of a single rising bubble used for numerical validation for multiphase flow. Chemical Engineering Science, 2014, 112, 25-34. | 3.8 | 26 |
| 177 | Modeling subcooled flow boiling in vertical channels at low pressures â€“ Part 1: Assessment of empirical correlations. International Journal of Heat and Mass Transfer, 2014, 75, 736-753. | 4.8 | 88 |
| 178 | Influence of Fuel Injection Timing and Pressure on In-Flame Soot Particles in an Automotive-Size Diesel Engine. Environmental Science & Technology, 2014, 48, 8243-8250. | 10.0 | 46 |
| 179 | On DEMâ€“CFD study of the dynamic characteristics of high speed micro-abrasive air jet. Powder Technology, 2014, 267, 161-179. | 4.2 | 41 |
| 180 | The shortening of lift-off length associated with jetâ€“wall and jetâ€“jet interaction in a small-bore optical diesel engine. Fuel, 2014, 125, 1-14. | 6.4 | 31 |

| # | Article | IF | Citations |
|---|---|---|---|
| 181 | Data Mining on Fire Records of New South Wales, Sydney. Procedia Engineering, 2014, 71, 328-332. | 1.2 | 3 |
| 182 | Multiphase Flow System with Suspended Particles. Advances in Mechanical Engineering, 2014, 6, 792050. | 1.6 | 0 |
| 183 | Thermal Performance of Nanofluids in Microchannel Equipped with a Synthetic Jet Actuator. , 2014, , . | | 2 |
| 184 | Mechanical and thermal properties of phenolic/glass fiber foam modified with phosphorusâ€containing polyurethane prepolymer. Polymer International, 2013, 62, 273-279. | 3.1 | 37 |
| 185 | Preparation of UV-curable functionalized graphene/polyurethane acrylate nanocomposite with enhanced thermal and mechanical behaviors. Reactive and Functional Polymers, 2013, 73, 854-858. | 4.1 | 46 |
| 186 | Numerical Simulation of a Ceiling Jet Fire in a Large Compartment. Procedia Engineering, 2013, 52, 3-12. | 1.2 | 26 |
| 187 | Modeling of bubble size distribution in isothermal gasâ€“liquid flows: Numerical assessment of population balance approaches. Nuclear Engineering and Design, 2013, 265, 120-136. | 1.7 | 39 |
| 188 | Fundamental spray and combustion measurements of soy methyl-ester biodiesel. International Journal of Engine Research, 2013, 14, 373-390. | 2.3 | 51 |
| 189 | Large-eddy simulation of turbulent buoyancy-driven flow in a rectangular cavity. International Journal of Heat and Fluid Flow, 2013, 39, 28-41. | 2.4 | 9 |
| 190 | Capturing coalescence and break-up processes in vertical gasâ€“liquid flows: Assessment of population balance methods. Applied Mathematical Modelling, 2013, 37, 8557-8577. | 4.2 | 20 |
| 191 | A novel polyurethane prepolymer as toughening agent: Preparation, characterization, and its influence on mechanical and flame retardant properties of phenolic foam. Journal of Applied Polymer Science, 2013, 128, 2720-2728. | 2.6 | 62 |
| 192 | Experimental development and control of magnetorheological damper towards smart energy absorption of composite structures. Proceedings of SPIE, 2013, , . | 0.8 | 0 |
| 193 | Effects of Operating Frequency of a Synthetic Jet and Cross Flow Velocity on the Heat Transfer Enhancement in a Micro-Channel. , 2013, , . | | 1 |
| 194 | Twoâ€Ðimensional Computational Analysis of Microbubbles in Hemodialysis. Artificial Organs, 2013, 37, E139-44. | 1.9 | 13 |
| 195 | Natural Convection in an Asymmetrically-Heated Open-Ended Channel: A Three-Dimensional Computational Study. , 2013, , . | | 2 |
| 196 | Comparison of the VOF and CLSVOF Methods in Interface Capturing of a Rising Bubble. Journal of Computational Multiphase Flows, 2013, 5, 43-55. | 0.8 | 12 |
| 197 | Size Distribution and Structure of Wall-Deposited Soot Particles in an Automotive-Size Diesel Engine. SAE International Journal of Fuels and Lubricants, 2013, 6, 605-614. | 0.2 | 20 |
| 198 | EFFECT OF VARIABLE PROPERTIES ON HEAT TRANSFER IN A MICRO-CHANNEL WITH A SYNTHETIC JET. Computational Thermal Sciences, 2013, 5, 369-388. | 0.9 | 5 |

| # | Article | IF | Citations |
|---|---|---|---|
| 199 | NUMERICAL SIMULATION OF AN ENCLOSURE FIRE IN A LARGE TEST HALL. Computational Thermal Sciences, 2013, 5, 459-471. | 0.9 | 30 |
| 200 | Modelling isothermal bubbly-cap flows using two-group averaged bubble number density approach. , 2012, , . | | 0 |
| 201 | Study of Isothermal Vertical Bubbly Flow Using Direct Quadrature Method of Moments. Journal of Computational Multiphase Flows, 2012, 4, 23-39. | 0.8 | 7 |
| 202 | Computational Fluid Dynamics and Its Applications 2012. Modelling and Simulation in Engineering, 2012, 2012, 1-2. | 0.7 | 2 |
| 203 | Computational Fluid Dynamic Analysis of a Vibrating Turbine Blade. International Journal of Rotating Machinery, 2012, 2012, 1-15. | 0.8 | 4 |
| 204 | Simulation of Blood Flow and Nanoparticle Transport in a Stenosed Carotid Bifurcation and Pseudo-Arteriole. Journal of Computational Multiphase Flows, 2012, 4, 85-101. | 0.8 | 4 |
| 205 | Development of Two-Dimensional Bubble Movement and Development Benchmark Dataset for Numerical Validation. , 2012, , . | | 0 |
| 206 | Forced Convection in Micro-Channel With Synthetic Jet: Effect of Operating Frequency. , 2012, , . | | 0 |
| 207 | On the Prediction of Bubble Size Distribution and Void Fraction in Vertical Gas-Liquid Flows. Journal of Computational Multiphase Flows, 2012, 4, 1-22. | 0.8 | 3 |
| 208 | Fabrication and characterization of graphene-reinforced waterborne polyurethane nanocomposite coatings by the solâ€“gel method. Surface and Coatings Technology, 2012, 206, 4778-4784. | 4.8 | 127 |
| 209 | Application of dynamic global-coefficient subgrid-scale models to turbulent natural convection in an enclosed tall cavity. Physics of Fluids, 2012, 24, . | 4.0 | 13 |
| 210 | Heat transfer enhancement in micro-channel with multiple synthetic jets. Applied Thermal Engineering, 2012, 48, 275-288. | 6.0 | 39 |
| 211 | Flow structure generated by two synthetic jets in a channel: Effect of phase and frequency. Sensors and Actuators A: Physical, 2012, 184, 98-111. | 4.1 | 21 |
| 212 | Modelling of natural convection in vertical and tilted photovoltaic applications. Energy and Buildings, 2012, 55, 810-822. | 6.7 | 49 |
| 213 | On the prediction of the phase distribution of bubbly flow in a horizontal pipe. Chemical Engineering Research and Design, 2012, 90, 40-51. | 5.6 | 25 |
| 214 | Three-dimensional modelling of fluid flow and heat transfer in micro-channels with synthetic jet. International Journal of Heat and Mass Transfer, 2012, 55, 198-213. | 4.8 | 41 |
| 215 | Numerical investigation of passive cooling in open vertical channels. Applied Thermal Engineering, 2012, 39, 121-131. | 6.0 | 26 |
| 216 | Large-eddy simulation of natural convection in an asymmetrically-heated vertical parallel-plate channel: Assessment of subgrid-scale models. Computers and Fluids, 2012, 59, 101-116. | 2.5 | 34 |

| # | Article | IF | Citations |
|---|---|---|---|
| 217 | Classification of bubbles in vertical gasâ€“liquid flow: Part 2 â€“ A model evaluation. International Journal of Multiphase Flow, 2012, 39, 135-147. | 3.4 | 17 |
| 218 | Classification of bubbles in vertical gasâ€“liquid flow: Part 1 â€“ An analysis of experimental data. International Journal of Multiphase Flow, 2012, 39, 121-134. | 3.4 | 19 |
| 219 | NUMERICAL AND EXPERIMENTAL INVESTIGATION OF UNSTEADY NATURAL CONVECTION IN A VERTICAL OPEN-ENDED CHANNEL. Computational Thermal Sciences, 2012, 4, 443-456. | 0.9 | 13 |
| 220 | Modeling Vertical Subcooled Boiling Flows at Low Pressures. , 2012, , 349-375. | | 0 |
| 221 | Modeling Vertical Subcooled Boiling Flows at Low Pressures. , 2012, , 349-375. | | 0 |
| 222 | EFFECT OF CHANNEL PRESSURE DIFFERENCE IN HEAT TRANSFER ENHANCEMENT IN MICRO-CHANNEL WITH SYNTHETIC JET. , 2012, , . | | 0 |
| 223 | LARGE EDDY SIMULATION OF FIRE IN A LARGE TEST HALL. , 2012, , . | | 0 |
| 224 | NUMERICAL AND EXPERIMENTAL INVESTIGATION OF UNSTEADY NATURAL CONVECTION IN AN OPEN CHANNEL. , 2012, , . | | 0 |
| 225 | Large-Eddy Simulation of Turbulent Natural Convection in Vertical Parallel-Plate Channels. Numerical Heat Transfer, Part B: Fundamentals, 2011, 59, 259-287. | 0.9 | 25 |
| 226 | Natural Convection in a PV-Integrated Double-Skin FaÃ§ade using Large-Eddy Simulation. Procedia Engineering, 2011, 14, 3277-3284. | 1.2 | 6 |
| 227 | A combined transient thermal model for laser hyperthermia of tumors with embedded gold nanoshells. International Journal of Heat and Mass Transfer, 2011, 54, 5459-5469. | 4.8 | 119 |
| 228 | Comparative Large Eddy Simulation study of a large-scale buoyant fire. Heat and Mass Transfer, 2011, 47, 1197-1208. | 2.1 | 6 |
| 229 | Gasâ€“liquid flows in medium and large vertical pipes. Chemical Engineering Science, 2011, 66, 872-883. | 3.8 | 42 |
| 230 | On the numerical study of bubbly flow created by ventilated cavity in vertical pipe. International Journal of Multiphase Flow, 2011, 37, 756-768. | 3.4 | 16 |
| 231 | Numerical Computation and Investigation of the Characteristics of Microscale Synthetic Jets. Modelling and Simulation in Engineering, 2011, 2011, 1-8. | 0.7 | 6 |
| 232 | Advances in Computational Fluid Dynamics and Its Applications. Modelling and Simulation in Engineering, 2011, 2011, 1-3. | 0.7 | 0 |
| 233 | Modeling Vertical Subcooled Boiling Flows at Low Pressures. Journal of ASTM International, 2011, 8, 1-20. | 0.2 | 4 |
| 234 | Modelling Horizontal Gas-Liquid Flow Using Averaged Bubble Number Density Approach. Journal of Computational Multiphase Flows, 2010, 2, 89-99. | 0.8 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 235 | Numerical Study on the Turbulent Flow Structures of a Buoyant Pool Fire. , 2010, , . | | 1 |
| 236 | Experimental and numerical study on the hemodynamics of stenosed carotid bifurcation. Australasian Physical and Engineering Sciences in Medicine, 2010, 33, 319-328. | 1.3 | 26 |
| 237 | Experimental and computational studies of compartment fire behavior training scenarios. Building and Environment, 2010, 45, 2620-2628. | 6.9 | 16 |
| 238 | Modelling of Polydispersed Flows using Two Population Balance Approaches. , 2010, , . | | 1 |
| 239 | Three-Dimensional Modelling of Heat Transfer in Micro-Channels With Synthetic Jet. , 2010, , . | | 0 |
| 240 | Transient Liquid Penetration of Early-Injection Diesel Sprays. SAE International Journal of Engines, 2009, 2, 785-804. | 0.4 | 50 |
| 241 | A fully-coupled simulation of vortical structures in a large-scale buoyant pool fire. International Journal of Thermal Sciences, 2009, 48, 2187-2202. | 4.9 | 42 |
| 242 | Particle and bubble dynamics in a creeping flow. European Journal of Mechanics, B/Fluids, 2009, 28, 619-629. | 2.5 | 8 |
| 243 | A Review of Population Balance Modelling for Isothermal Bubbly Flows. Journal of Computational Multiphase Flows, 2009, 1, 161-199. | 0.8 | 12 |
| 244 | A Study of Drag Force in Isothermal Bubbly Flow. Journal of Computational Multiphase Flows, 2009, 1, 295-309. | 0.8 | 3 |
| 245 | Assessment of Interface Capturing Methods in Computational Fluid Dynamics (CFD) Codes â€" A Case Study. Journal of Computational Multiphase Flows, 2009, 1, 201-215. | 0.8 | 7 |
| 246 | Numerical investigation into the effects of wall roughness on a gasâ€"particle flow in a 90Â° bend. International Journal of Heat and Mass Transfer, 2008, 51, 1238-1250. | 4.8 | 32 |
| 247 | Bubble departure frequency in forced convective subcooled boiling flow. International Journal of Heat and Mass Transfer, 2008, 51, 6268-6282. | 4.8 | 93 |
| 248 | Burgersâ€"Rott vortices with surface tension. Zeitschrift Fur Angewandte Mathematik Und Physik, 2008, 59, 1057-1068. | 1.4 | 7 |
| 249 | Population balance modeling of bubbly flows considering the hydrodynamics and thermomechanical processes. AICHE Journal, 2008, 54, 1689-1710. | 3.6 | 46 |
| 250 | Numerical simulation of the migration of hot gases in open vertical shaft. Applied Thermal Engineering, 2008, 28, 478-487. | 6.0 | 17 |
| 251 | Fundamental consideration of wall heat partition of vertical subcooled boiling flows. International Journal of Heat and Mass Transfer, 2008, 51, 3840-3853. | 4.8 | 66 |
| 252 | Population balance models for subcooled boiling flows. International Journal of Numerical Methods for Heat and Fluid Flow, 2008, 18, 160-172. | 2.8 | 6 |

| # | Article | IF | Citations |
|---|---|---|---|
| 253 | Stationary bathtub vortices and a critical regime of liquid discharge. Journal of Fluid Mechanics, 2008, 604, 77-98. | 3.4 | 41 |
| 254 | Flickering Behavior of Turbulent Buoyant Fires Using Large-Eddy Simulation. Numerical Heat Transfer; Part A: Applications, 2007, 52, 679-712. | 2.1 | 30 |
| 255 | CFD Studies of Indoor Airflow and Contaminant Particle Transportation. Particulate Science and Technology, 2007, 25, 555-570. | 2.1 | 31 |
| 256 | Capturing the Pulsation Frequency of a Buoyant Pool Fire using the Large Eddy Simulation Approach. Numerical Heat Transfer; Part A: Applications, 2007, 53, 561-576. | 2.1 | 13 |
| 257 | Numerical modelling and validation of gas-particle flow in an in-line tube bank. Computers and Chemical Engineering, 2007, 31, 1064-1072. | 3.8 | 34 |
| 258 | Numerical studies of indoor airflow and particle dispersion by large Eddy simulation. Building and Environment, 2007, 42, 3483-3492. | 6.9 | 42 |
| 259 | On the modelling of population balance in isothermal vertical bubbly flowsâ€"Average bubble number density approach. Chemical Engineering and Processing: Process Intensification, 2007, 46, 742-756. | 3.6 | 83 |
| 260 | Modelling the pyrolysis of wet wood â€“ I. Three-dimensional formulation and analysis. International Journal of Heat and Mass Transfer, 2007, 50, 4371-4386. | 4.8 | 53 |
| 261 | Modelling the pyrolysis of wet wood â€“ II. Three-dimensional cone calorimeter simulation. International Journal of Heat and Mass Transfer, 2007, 50, 4387-4399. | 4.8 | 19 |
| 262 | On the numerical study of isothermal vertical bubbly flow using two population balance approaches. Chemical Engineering Science, 2007, 62, 4659-4674. | 3.8 | 99 |
| 263 | Improvement of Low-Pressure Subcooled Boiling Models in RELAP/MOD3.2 Code for Predicting Flow Instability. Nuclear Science and Engineering, 2006, 152, 118-124. | 1.1 | 2 |
| 264 | Prediction of temperature and velocity profiles in a single compartment fire by an improved neural network analysis. Fire Safety Journal, 2006, 41, 478-485. | 3.1 | 40 |
| 265 | The influence of gaps of fire-resisting doors on the smoke spread in a building fire. Fire Safety Journal, 2006, 41, 539-546. | 3.1 | 23 |
| 266 | Numerical modelling of bubbly flows with and without heat and mass transfer. Applied Mathematical Modelling, 2006, 30, 1067-1095. | 4.2 | 45 |
| 267 | Two-fluid and population balance models for subcooled boiling flow. Applied Mathematical Modelling, 2006, 30, 1370-1391. | 4.2 | 56 |
| 268 | On the numerical study of contaminant particle concentration in indoor airflow. Building and Environment, 2006, 41, 1504-1514. | 6.9 | 67 |
| 269 | A unified model considering force balances for departing vapour bubbles and population balance in subcooled boiling flow. Nuclear Engineering and Design, 2005, 235, 1251-1265. | 1.7 | 64 |
| 270 | Sensitivity study on three different SN order schemes of the discrete ordinates method for two-compartment enclosure fire. Fire Safety Journal, 2005, 40, 736-744. | 3.1 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 271 | Thermal-hydrodynamic modeling of bubbly flows with heat and mass transfer. AICHE Journal, 2005, 51, 8-27. | 3.6 | 53 |
| 272 | Numerical Simulation and Validation of Dilute Gas-Particle Flow Over a Backward-Facing Step. Aerosol Science and Technology, 2005, 39, 319-332. | 3.1 | 33 |
| 273 | On Population Balance Approach for Subcooled Boiling Flow Prediction. Journal of Heat Transfer, 2005, 127, 253-264. | 2.1 | 17 |
| 274 | A BUBBLE MECHANISTIC MODEL FOR SUBCOOLED BOILING FLOW PREDICTIONS. Numerical Heat Transfer, Part B: Fundamentals, 2004, 45, 475-493. | 0.9 | 8 |
| 275 | On void fraction distribution during two-phase boiling flow instability. International Journal of Heat and Mass Transfer, 2004, 47, 413-417. | 4.8 | 14 |
| 276 | Principal characteristics of turbulent gas-particulate flow in the vicinity of single tube and tube bundle structure. Chemical Engineering Science, 2004, 59, 3141-3157. | 3.8 | 25 |
| 277 | Numerical investigation of static flow instability in a low-pressure subcooled boiling channel. Heat and Mass Transfer, 2004, 40, 355-364. | 2.1 | 15 |
| 278 | A novel artificial neural network fire model for prediction of thermal interface location in single compartment fire. Fire Safety Journal, 2004, 39, 67-87. | 3.1 | 58 |
| 279 | Contribution of soot particles on global radiative heat transfer in a two-compartment fire. Fire Safety Journal, 2004, 39, 412-428. | 3.1 | 27 |
| 280 | Population balance modelling for bubbly flows with heat and mass transfer. Chemical Engineering Science, 2004, 59, 3125-3139. | 3.8 | 74 |
| 281 | A Study of Particle Rebounding Characteristics of a Gasâ€“Particle Flow over a Curved Wall Surface. Aerosol Science and Technology, 2004, 38, 739-755. | 3.1 | 26 |
| 282 | Numerical simulation of turbulent wake flows behind two side-by-side cylinders. Journal of Fluids and Structures, 2003, 18, 387-403. | 3.4 | 59 |
| 283 | On modelling combustion, radiation and soot processes in compartment fires. Building and Environment, 2003, 38, 771-785. | 6.9 | 29 |
| 284 | On numerical comparison of enclosure fire in a multi-compartment building. Fire Safety Journal, 2003, 38, 85-94. | 3.1 | 27 |
| 285 | Numerical Investigation of Flow Instability in a Low-Pressure Subcooled Boiling Channel. , 2003, , 559-564. | | 0 |
| 286 | PREDICTION AND MEASUREMENT OF LOCAL TWO-PHASE FLOW PARAMETERS IN A BOILING FLOW CHANNEL. Numerical Heat Transfer; Part A: Applications, 2002, 42, 173-192. | 2.1 | 21 |
| 287 | Implementation of a Two-Phase Boiling Model into the RELAP5/MOD2 Computer Code to Predict Void Distribution in Low-Pressure Subcooled Boiling Flows. Nuclear Science and Engineering, 2002, 140, 181-188. | 1.1 | 17 |
| 288 | Fire and smoke distribution in a twoâ€room compartment structure. International Journal of Numerical Methods for Heat and Fluid Flow, 2002, 12, 178-194. | 2.8 | 23 |

| # | Article | IF | Citations |
|---|---|---|---|
| 289 | COMBUSTION AND HEAT TRANSFER IN COMPARTMENT FIRES. Numerical Heat Transfer; Part A: Applications, 2002, 42, 153-172. | 2.1 | 20 |
| 290 | On numerical modelling of low-pressure subcooled boiling flows. International Journal of Heat and Mass Transfer, 2002, 45, 1197-1209. | 4.8 | 207 |
| 291 | A Numerical Model for Pilot Ignition of PMMA in a Cone Calorimeter. Combustion Science and Technology, 1997, 129, 321-345. | 2.3 | 10 |
| 292 | A numerical and experimental study of natural convection and interface shape in crystal growth. Journal of Crystal Growth, 1997, 173, 492-502. | 1.5 | 26 |
| 293 | A Three-dimensional Mathematical Model For The Pyrolysis Of Wet Wood. Fire Safety Science, 1997, 5, 189-200. | 0.3 | 11 |
| 294 | A NUMERICAL STUDY OF THREE-DIMENSIONAL NATURAL CONVECTION AND FREEZING IN WATER. , 1992, , 640-650. | | 0 |
| 295 | A numerical study of three-dimensional natural convection during freezing of water. International Journal for Numerical Methods in Engineering, 1990, 30, 899-914. | 2.8 | 30 |
| 296 | The Effect of Swirl Ratio and Fuel Injection Parameters on CO Emission and Fuel Conversion Efficiency for High-Dilution, Low-Temperature Combustion in an Automotive Diesel Engine. , 0, , . | | 77 |
| 297 | Liquid Penetration of Diesel and Biodiesel Sprays at Late-Cycle Post-Injection Conditions. SAE International Journal of Engines, 0, 3, 479-495. | 0.4 | 55 |
| 298 | Soot Volume Fraction and Morphology of Conventional, Fischer-Tropsch, Coal-Derived, and Surrogate Fuel at Diesel Conditions. SAE International Journal of Fuels and Lubricants, 0, 5, 647-664. | 0.2 | 92 |
| 299 | Development of Wall-Adapting Local Eddy Viscosity Model for Study of Fire Dynamics in a Large Compartment. Applied Mechanics and Materials, 0, 444-445, 1579-1591. | 0.2 | 0 |
| 300 | Uncertainty in Sampling and TEM Analysis of Soot Particles in Diesel Spray Flame. , 0, , . | | 34 |
| 301 | A Comparative Analysis on the Spray Penetration of Ethanol, Gasoline and Iso-Octane Fuel in a Spark-Ignition Direct-Injection Engine. , 0, , . | | 10 |
| 302 | Investigation of the 3D Flow in Hemodialysis Venous Air Traps. Applied Mechanics and Materials, 0, 553, 156-161. | 0.2 | 1 |
| 303 | Automated Detection of Primary Particles from Transmission Electron Microscope (TEM) Images of Soot Aggregates in Diesel Engine Environments. SAE International Journal of Engines, 0, 9, 279-296. | 0.4 | 42 |
| 304 | An Investigation of Hole Machining Process on a Carbon-Fiber Reinforced Plastic Sheet by Abrasive Waterjet. Advanced Materials Research, 0, 1136, 113-118. | 0.3 | 8 |
| 305 | A Numerical Investigation of Mixture Formation and Combustion Characteristics of a Hydrogen-Diesel Dual Direct Injection Engine. , 0, , . | | 7 |
| 306 | Controlling the clustering behavior of particulate colloidal systems using alternating and rotating magnetic fields. Computational Particle Mechanics, 0, , 1. | 3.0 | 2 |

| # | Article | IF | Citations |
|---|---|---|---|
| 307 | Numerical Investigation of Rising Vapour Bubble in Convective Boiling Using an Advanced 3D Hybrid Numerical Method. , 0, , . | | 0 |
| 308 | A systematic approach to formulate numerical kinetics for furnishing materials fire simulation with validation procedure using cone/FT-IR data. Heat and Mass Transfer, 0, , 1. | 2.1 | 5 |
| 309 | A multiphase approach for pyrolysis modelling of polymeric materials. Experimental and Computational Multiphase Flow, 0, , 1. | 3.9 | 3 |