Guan Heng Yeoh

List of Publications by Year
in descending order

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	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
2	On numerical modelling of low-pressure subcooled boiling flows. International Journal of Heat and Mass Transfer, 2002, 45, 1197-1209.	4.8	207
3	A Review of Hydrogen Direct Injection for Internal Combustion Engines: Towards Carbon-Free Combustion. Applied Sciences (Switzerland), 2019, 9, 4842.	2.5	204
4	MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. Journal of Hazardous Materials, 2020, 381, 120952.	12.4	174
5	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
6	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
7	Fabrication and characterization of graphene-reinforced waterborne polyurethane nanocomposite coatings by the sol–gel method. Surface and Coatings Technology, 2012, 206, 4778-4784.	4.8	127
8	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
9	Flow-induced stress on adherent cells in microfluidic devices. Lab on A Chip, 2015, 15, 4114-4127.	6.0	111
10	Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. Composites Part B: Engineering, 2020, 188, 107875.	12.0	111
11	An overview of processes and considerations in the modelling of fixed-bed biomass combustion. Energy, 2015, 88, 946-972.	8.8	106
12	Recent progress in bio-based aerogel absorbents for oil/water separation. Cellulose, 2019, 26, 6449-6476.	4.9	102
13	On the numerical study of isothermal vertical bubbly flow using two population balance approaches. Chemical Engineering Science, 2007, 62, 4659-4674.	3.8	99
14	Bubble departure frequency in forced convective subcooled boiling flow. International Journal of Heat and Mass Transfer, 2008, 51, 6268-6282.	4.8	93
15	Functionalization of MXene Nanosheets for Polystyrene towards High Thermal Stability and Flame Retardant Properties. Polymers, 2019, 11, 976.	4.5	93
16	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
17	Modeling subcooled flow boiling in vertical channels at low pressures – Part 1: Assessment of empirical correlations. International Journal of Heat and Mass Transfer, 2014, 75, 736-753.	4.8	88
18	On the modelling of population balance in isothermal vertical bubbly flows–Average bubble number density approach. Chemical Engineering and Processing: Process Intensification, 2007, 46, 742-756.	3.6	83

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19	Study on flame retarded flexible polyurethane foam/alumina aerogel composites with improved fire safety. Chemical Engineering Journal, 2017, 311, 310-317.	12.7	82
20	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
21	Population balance modelling for bubbly flows with heat and mass transfer. Chemical Engineering Science, 2004, 59, 3125-3139.	3.8	74
22	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
23	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
24	Nanoparticles of polydopamine for improving mechanical and flame-retardant properties of an epoxy resin. Composites Part B: Engineering, 2020, 186, 107828.	12.0	70
25	On the numerical study of contaminant particle concentration in indoor airflow. Building and Environment, 2006, 41, 1504-1514.	6.9	67
26	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
27	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
28	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
29	Thermal hydraulic considerations of nuclear reactor systems: Past, present and future challenges. Experimental and Computational Multiphase Flow, 2019, 1, 3-27.	3.9	62
30	A review on polymer-based materials for underwater sound absorption. Polymer Testing, 2021, 96, 107115.	4.8	60
31	Numerical simulation of turbulent wake flows behind two side-by-side cylinders. Journal of Fluids and Structures, 2003, 18, 387-403.	3.4	59
32	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
33	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
34	Two-fluid and population balance models for subcooled boiling flow. Applied Mathematical Modelling, 2006, 30, 1370-1391.	4.2	56
35	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
36	A review on the development of nuclear power reactors. Energy Procedia, 2019, 160, 459-466.	1.8	54

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37	Thermal-hydrodynamic modeling of bubbly flows with heat and mass transfer. AICHE Journal, 2005, 51, 8-27.	3.6	53
38	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
39	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
40	Fundamental spray and combustion measurements of soy methyl-ester biodiesel. International Journal of Engine Research, 2013, 14, 373-390.	2.3	51
41	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
42	Transient Liquid Penetration of Early-Injection Diesel Sprays. SAE International Journal of Engines, 2009, 2, 785-804.	0.4	50
43	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
44	Numerical investigation on the velocity fields during droplet formation in a microfluidic T-junction. Chemical Engineering Science, 2016, 139, 99-108.	3.8	50
45	Air staging strategies in biomass combustion-gaseous and particulate emission reduction potentials. Fuel Processing Technology, 2017, 157, 29-41.	7.2	50
46	Modelling of natural convection in vertical and tilted photovoltaic applications. Energy and Buildings, 2012, 55, 810-822.	6.7	49
47	A Review on Lithium-Ion Battery Separators towards Enhanced Safety Performances and Modelling Approaches. Molecules, 2021, 26, 478.	3.8	49
48	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
49	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
50	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
51	Population balance modeling of bubbly flows considering the hydrodynamics and thermomechanical processes. AICHE Journal, 2008, 54, 1689-1710.	3.6	46
52	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
53	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
54	Numerical modelling of bubbly flows with and without heat and mass transfer. Applied Mathematical Modelling, 2006, 30, 1067-1095.	4.2	45

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55	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
56	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
57	Combustion characterization of waste cooking oil and canola oil based biodiesels under simulated engine conditions. Fuel, 2018, 224, 167-177.	6.4	44
58	Fire Risk Assessment of Combustible Exterior Cladding Using a Collective Numerical Database. Fire, 2019, 2, 11.	2.8	44
59	Numerical studies of indoor airflow and particle dispersion by large Eddy simulation. Building and Environment, 2007, 42, 3483-3492.	6.9	42
60	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
61	Gasâ€"liquid flows in medium and large vertical pipes. Chemical Engineering Science, 2011, 66, 872-883.	3.8	42
62	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
63	Stationary bathtub vortices and a critical regime of liquid discharge. Journal of Fluid Mechanics, 2008, 604, 77-98.	3.4	41
64	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
65	On DEMâ€"CFD study of the dynamic characteristics of high speed micro-abrasive air jet. Powder Technology, 2014, 267, 161-179.	4.2	41
66	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
67	Heat transfer enhancement in micro-channel with multiple synthetic jets. Applied Thermal Engineering, 2012, 48, 275-288.	6.0	39
68	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
69	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
70	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
71	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
72	Alginate/Polymer-Based Materials for Fire Retardancy: Synthesis, Structure, Properties, and Applications. Polymer Reviews, 2021, 61, 357-414.	10.9	38

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73	Mechanical and thermal properties of phenolic/glass fiber foam modified with phosphorusâ€containing polyurethane prepolymer. Polymer International, 2013, 62, 273-279.	3.1	37
74	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
75	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
76	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
77	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
78	Uncertainty in Sampling and TEM Analysis of Soot Particles in Diesel Spray Flame. , 0, , .		34
79	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
80	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
81	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
82	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
83	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
84	CFD Studies of Indoor Airflow and Contaminant Particle Transportation. Particulate Science and Technology, 2007, 25, 555-570.	2.1	31
85	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
86	Spray and Combustion Investigation of Post Injections under Low-Temperature Combustion Conditions with Biodiesel. Energy & Fuels, 2018, 32, 8727-8742.	5.1	31
87	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
88	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
89	Flickering Behavior of Turbulent Buoyant Fires Using Large-Eddy Simulation. Numerical Heat Transfer; Part A: Applications, 2007, 52, 679-712.	2.1	30
90	Fire scene investigation of an arson fire incident using computational fluid dynamics based fire simulation. Building Simulation, 2014, 7, 477-487.	5.6	30

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91	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
92	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
93	NUMERICAL SIMULATION OF AN ENCLOSURE FIRE IN A LARGE TEST HALL. Computational Thermal Sciences, 2013, 5, 459-471.	0.9	30
94	On modelling combustion, radiation and soot processes in compartment fires. Building and Environment, 2003, 38, 771-785.	6.9	29
95	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
96	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
97	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
98	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
99	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
100	Effects of flame-plane wall impingement on diesel combustion and soot processes. Fuel, 2019, 255, 115726.	6.4	28
101	Fire-retarded nanocomposite aerogels for multifunctional applications: A review. Composites Part B: Engineering, 2022, 237, 109866.	12.0	28
102	On numerical comparison of enclosure fire in a multi-compartment building. Fire Safety Journal, 2003, 38, 85-94.	3.1	27
103	Contribution of soot particles on global radiative heat transfer in a two-compartment fire. Fire Safety Journal, 2004, 39, 412-428.	3.1	27
104	Effect of freeboard deflectors in the fixed bed combustion of biomass. Applied Thermal Engineering, 2016, 103, 543-552.	6.0	27
105	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
106	PDMS/MWCNT nanocomposite films for underwater sound absorption applications. Journal of Materials Science, 2020, 55, 5048-5063.	3.7	27
107	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
108	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

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109	A Study of Particle Rebounding Characteristics of a Gas–Particle Flow over a Curved Wall Surface. Aerosol Science and Technology, 2004, 38, 739-755.	3.1	26
110	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
111	Numerical investigation of passive cooling in open vertical channels. Applied Thermal Engineering, 2012, 39, 121-131.	6.0	26
112	Numerical Simulation of a Ceiling Jet Fire in a Large Compartment. Procedia Engineering, 2013, 52, 3-12.	1.2	26
113	Transient analysis of a single rising bubble used for numerical validation for multiphase flow. Chemical Engineering Science, 2014, 112, 25-34.	3.8	26
114	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
115	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
116	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
117	Critical assessment on operating water droplet sizes for fire sprinkler and water mist systems. Journal of Building Engineering, 2020, 28, 100999.	3.4	26
118	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
119	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
120	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
121	Integration of Computational Fluid Dynamics and Artificial Neural Network for Optimization Design of Battery Thermal Management System. Batteries, 2022, 8, 69.	4.5	26
122	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
123	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
124	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
125	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
126	Numerical investigation on the thermal management of lithium-ion battery system and cooling effect optimization. Applied Thermal Engineering, 2022, 215, 118966.	6.0	25

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127	Underwater sound absorption properties of polydimethylsiloxane/carbon nanotube composites with steel plate backing. Applied Acoustics, 2021, 171, 107668.	3.3	24
128	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
129	Development of an evacuation model considering the impact of stress variation on evacuees under fire emergency. Safety Science, 2021, 138, 105232.	4.9	24
130	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
131	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
132	Fire scene reconstruction of a furnished compartment room in a house fire. Case Studies in Fire Safety, 2014, 1, 29-35.	1.0	23
133	LES and Multi-Step Chemical Reaction in Compartment Fires. Numerical Heat Transfer; Part A: Applications, 2015, 68, 711-736.	2.1	23
134	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
135	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
136	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
137	The Effect of Gold Nanorods Clustering on Near-Infrared Radiation Absorption. Applied Sciences (Switzerland), 2018, 8, 1132.	2.5	21
138	Fire-Resistant Flexible Polyurethane Foams via Nature-Inspired Chitosan-Expandable Graphite Coatings. ACS Applied Polymer Materials, 2021, 3, 4079-4087.	4.4	21
139	COMBUSTION AND HEAT TRANSFER IN COMPARTMENT FIRES. Numerical Heat Transfer; Part A: Applications, 2002, 42, 153-172.	2.1	20
140	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
141	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
142	External irradiation effect on the growth and evolution of in-flame soot species. Carbon, 2016, 102, 161-171.	10.3	20
143	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
144	Flameâ€"Wall Interaction Effects on Diesel Post-injection Combustion and Soot Formation Processes. Energy & Fuels, 2019, 33, 7759-7769.	5.1	20

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145	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
146	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
147	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
148	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
149	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
150	Color-ratio pyrometry methods for flameâ€"wall impingement study. Journal of the Energy Institute, 2019, 92, 1968-1976.	5.3	18
151	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
152	Improved flame-retardant properties of polydimethylsiloxane/multi-walled carbon nanotube nanocomposites. Journal of Materials Science, 2021, 56, 2192-2211.	3.7	18
153	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
154	On Population Balance Approach for Subcooled Boiling Flow Prediction. Journal of Heat Transfer, 2005, 127, 253-264.	2.1	17
155	Numerical simulation of the migration of hot gases in open vertical shaft. Applied Thermal Engineering, 2008, 28, 478-487.	6.0	17
156	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
157	A CFD-based comparative analysis of drying in various single biomass particles. Applied Thermal Engineering, 2018, 128, 1062-1073.	6.0	17
158	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
159	Experimental and computational studies of compartment fire behavior training scenarios. Building and Environment, 2010, 45, 2620-2628.	6.9	16
160	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
161	On numerical study of calcium sulphate fouling under sub-cooled flow boiling conditions. Applied Thermal Engineering, 2015, 81, 18-27.	6.0	16
162	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

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163	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
164	Numerical investigation of static flow instability in a low-pressure subcooled boiling channel. Heat and Mass Transfer, 2004, 40, 355-364.	2.1	15
165	Modeling the Response of Magnetorheological Fluid Dampers under Seismic Conditions. Applied Sciences (Switzerland), 2019, 9, 4189.	2.5	15
166	Flow patterns and pressure gradient correlation for oil–water core–annular flow in horizontal pipes. Experimental and Computational Multiphase Flow, 2020, 2, 99-108.	3.9	15
167	Simulation of competitive and cooperative egress movements on the crowd emergency evacuation. Simulation Modelling Practice and Theory, 2021, 109, 102309.	3.8	15
168	On void fraction distribution during two-phase boiling flow instability. International Journal of Heat and Mass Transfer, 2004, 47, 413-417.	4.8	14
169	Study of Morphology and Optical Properties of Gold Nanoparticle Aggregates under Different pH Conditions. Langmuir, 2018, 34, 10340-10352.	3.5	14
170	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
171	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
172	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
173	Two‐Dimensional Computational Analysis of Microbubbles in Hemodialysis. Artificial Organs, 2013, 37, E139-44.	1.9	13
174	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
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