

# Guan Heng Yeoh

## List of Publications by Year in descending order

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309  
papers

8,278  
citations

53660

45  
h-index

91712

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. <i>Experimental and Computational Multiphase Flow</i> , 2023, 5, 142-148.	1.9	3
2	Numerical assessment of LES subgrid-scale turbulence models for expandable particles in fire suppression. <i>Experimental and Computational Multiphase Flow</i> , 2023, 5, 99-110.	1.9	5
3	Numerical study on using vortex flow to improve smoke exhaust efficiency in large-scale atrium fires. <i>Indoor and Built Environment</i> , 2023, 32, 98-115.	1.5	2
4	Soot: A review of computational models at different length scales. <i>Experimental and Computational Multiphase Flow</i> , 2023, 5, 1-14.	1.9	2
5	Numerical investigation of expandable graphite suppression on metal-based fire. <i>Heat and Mass Transfer</i> , 2022, 58, 65-81.	1.2	9
6	Multiphase CFD modelling for enclosure fires – A review on past studies and future perspectives. <i>Experimental and Computational Multiphase Flow</i> , 2022, 4, 1-25.	1.9	13
7	Three-Dimensional Simulation of Vapor Bubble Growth in Superheated Water Due to the Convective Action by an Interface Tracking Method. <i>Journal of Fluids Engineering, Transactions of the ASME</i> , 2022, 144, .	0.8	2
8	Optimization of swirler type dry powder inhaler device design – Numerical investigation on the effect of dimple shape, inlet configuration and mouthpiece constriction. <i>Journal of Aerosol Science</i> , 2022, 159, 105893.	1.8	2
9	Computational investigation of particle penetration and deposition pattern in a realistic respiratory tract model from different types of dry powder inhalers. <i>International Journal of Pharmaceutics</i> , 2022, 612, 121293.	2.6	9
10	Synergistic effect of additives on electrical resistivity, fire and smoke suppression of silicone rubber for high voltage insulation. <i>Composites Communications</i> , 2022, 29, 101045.	3.3	16
11	Three-dimensional numerical simulation of air-flow in inkjet print-zones. <i>International Journal of Heat and Fluid Flow</i> , 2022, 93, 108911.	1.1	4
12	Laser ignition of iso-octane and n-heptane jets under compression-ignition conditions. <i>Fuel</i> , 2022, 311, 122555.	3.4	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. <i>International Journal of Heat and Mass Transfer</i> , 2022, 184, 122306.	2.5	6
14	An Investigation towards Coupling Molecular Dynamics with Computational Fluid Dynamics for Modelling Polymer Pyrolysis. <i>Molecules</i> , 2022, 27, 292.	1.7	12
15	Structure evolution of nanodiamond aggregates: a SANS and USANS study. <i>Journal of Applied Crystallography</i> , 2022, 55, 353-361.	1.9	2
16	Fire-retarded nanocomposite aerogels for multifunctional applications: A review. <i>Composites Part B: Engineering</i> , 2022, 237, 109866.	5.9	28
17	Developing a solid decomposition kinetics extraction framework for detailed chemistry pyrolysis and combustion modelling of building polymer composites. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 163, 105500.	2.6	13
18	Pyrolysis and combustion characterisation of HDPE/APP composites via molecular dynamics and CFD simulations. <i>Journal of Analytical and Applied Pyrolysis</i> , 2022, 163, 105499.	2.6	9

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19	Synthesis of zinc porphyrin complex for improving mechanical, UV-resistance, thermal stability and fire safety properties of polystyrene. <i>Chemical Engineering Journal</i> , 2022, 442, 136367.	6.6	26
20	Synergistic effects of tubular halloysite clay and zirconium phosphate on thermal behavior of intumescent coating for structural steel. <i>Journal of Materials Research and Technology</i> , 2022, 18, 4456-4469.	2.6	3
21	Atomistic characterisation of graphite oxidation and thermal decomposition mechanism under isothermal and Non-Isothermal heating scheme. <i>Computational Materials Science</i> , 2022, 210, 111458.	1.4	2
22	A parametric study of autoigniting hydrogen jets under compression-ignition engine conditions. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21307-21322.	3.8	7
23	Integration of Computational Fluid Dynamics and Artificial Neural Network for Optimization Design of Battery Thermal Management System. <i>Batteries</i> , 2022, 8, 69.	2.1	26
24	Numerical investigation on the thermal management of lithium-ion battery system and cooling effect optimization. <i>Applied Thermal Engineering</i> , 2022, 215, 118966.	3.0	25
25	Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. <i>Journal of Hazardous Materials</i> , 2021, 401, 123342.	6.5	151
26	Alginate/Polymer-Based Materials for Fire Retardancy: Synthesis, Structure, Properties, and Applications. <i>Polymer Reviews</i> , 2021, 61, 357-414.	5.3	38
27	Characterisation of pyrolysis kinetics and detailed gas species formations of engineering polymers via reactive molecular dynamics (ReaxFF). <i>Journal of Analytical and Applied Pyrolysis</i> , 2021, 153, 104931.	2.6	26
28	Improved flame-retardant properties of polydimethylsiloxane/multi-walled carbon nanotube nanocomposites. <i>Journal of Materials Science</i> , 2021, 56, 2192-2211.	1.7	18
29	Underwater sound absorption properties of polydimethylsiloxane/carbon nanotube composites with steel plate backing. <i>Applied Acoustics</i> , 2021, 171, 107668.	1.7	24
30	Performance and emissions of hydrogen-diesel dual direct injection (H2DDI) in a single-cylinder compression-ignition engine. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 1302-1314.	3.8	57
31	A novel stochastic approach to study water droplet/flame interaction of water mist systems. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021, 79, 570-593.	1.2	10
32	Experimental and numerical perspective on the fire performance of MXene/Chitosan/Phytic acid coated flexible polyurethane foam. <i>Scientific Reports</i> , 2021, 11, 4684.	1.6	24
33	Heat Generation in Irradiated Gold Nanoparticle Solutions for Hyperthermia Applications. <i>Processes</i> , 2021, 9, 368.	1.3	4
34	Evaluating the fire risk associated with cladding panels: An overview of fire incidents, policies, and future perspective in fire standards. <i>Fire and Materials</i> , 2021, 45, 663-689.	0.9	27
35	A review on polymer-based materials for underwater sound absorption. <i>Polymer Testing</i> , 2021, 96, 107115.	2.3	60
36	Simulation of competitive and cooperative egress movements on the crowd emergency evacuation. <i>Simulation Modelling Practice and Theory</i> , 2021, 109, 102309.	2.2	15

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37	Development of an evacuation model considering the impact of stress variation on evacuees under fire emergency. <i>Safety Science</i> , 2021, 138, 105232.	2.6	24
38	Effects of expandable graphite on char morphology and pyrolysis of epoxy based intumescent fire-retardant coating. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51206.	1.3	5
39	Fire-Resistant Flexible Polyurethane Foams via Nature-Inspired Chitosan-Expandable Graphite Coatings. <i>ACS Applied Polymer Materials</i> , 2021, 3, 4079-4087.	2.0	21
40	Wet or dry multifunctional coating prepared by visible light polymerisation with fire retardant, thermal protective, and antimicrobial properties. <i>Cellulose</i> , 2021, 28, 8821-8840.	2.4	6
41	Study of structure morphology and layer thickness of Ti <sub>3</sub> C <sub>2</sub> MXene with Small-Angle Neutron Scattering (SANS). <i>Composites Part C: Open Access</i> , 2021, 5, 100155.	1.5	17
42	Flame Retardancy and Excellent Electrical Insulation Performance of RTV Silicone Rubber. <i>Polymers</i> , 2021, 13, 2854.	2.0	12
43	BODIPY coated on MXene nanosheets for improving mechanical and fire safety properties of ABS resin. <i>Composites Part B: Engineering</i> , 2021, 223, 109130.	5.9	70
44	Ignition and flame stabilisation of primary reference fuel sprays at engine-relevant conditions. <i>Combustion and Flame</i> , 2021, 233, 111620.	2.8	11
45	A Review on Lithium-Ion Battery Separators towards Enhanced Safety Performances and Modelling Approaches. <i>Molecules</i> , 2021, 26, 478.	1.7	49
46	Peanut Shell Derived Carbon Combined with Nano Cobalt: An Effective Flame Retardant for Epoxy Resin. <i>Molecules</i> , 2021, 26, 6662.	1.7	5
47	Co-Combustion Characteristics and Kinetics of Microalgae <i>Chlorella Vulgaris</i> and Coal through TGA. <i>Combustion Science and Technology</i> , 2020, 192, 26-45.	1.2	9
48	Characterisation of soot particle size distribution through population balance approach and soot diagnostic techniques for a buoyant non-premixed flame. <i>Journal of the Energy Institute</i> , 2020, 93, 112-128.	2.7	16
49	3-Way coupled thermohydraulic-discrete element-neutronic simulation of solid fuel, molten salt reactor. <i>Annals of Nuclear Energy</i> , 2020, 135, 106973.	0.9	3
50	Flow patterns and pressure gradient correlation for oil-water core-annular flow in horizontal pipes. <i>Experimental and Computational Multiphase Flow</i> , 2020, 2, 99-108.	1.9	15
51	MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. <i>Journal of Hazardous Materials</i> , 2020, 381, 120952.	6.5	174
52	Critical assessment on operating water droplet sizes for fire sprinkler and water mist systems. <i>Journal of Building Engineering</i> , 2020, 28, 100999.	1.6	26
53	Morphology and internal structure of soot particles under the influence of jet-swirl and jet-jet interactions in a diesel combustion environment. <i>Combustion and Flame</i> , 2020, 214, 25-36.	2.8	9
54	Utilising genetic algorithm to optimise pyrolysis kinetics for fire modelling and characterisation of chitosan/graphene oxide polyurethane composites. <i>Composites Part B: Engineering</i> , 2020, 182, 107619.	5.9	51

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55	Study of Ignition and Combustion Characteristics of Consecutive Injections with <i>iso</i> -Octane and <i>n</i> -Heptane as Fuels. <i>Energy &amp; Fuels</i> , 2020, 34, 14741-14756.	2.5	10
56	Spray and Combustion Characteristics of Gasoline-like Fuel under Compression-Ignition Conditions. <i>Energy &amp; Fuels</i> , 2020, 34, 16585-16598.	2.5	6
57	Visualization of hydrogen jet evolution and combustion under simulated direct-injection compression-ignition engine conditions. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 32562-32578.	3.8	27
58	Enhanced dielectric and thermal performance by fabricating coalesced network of alumina trihydrate/boron nitride in silicone rubber for electrical insulation. <i>Bulletin of Materials Science</i> , 2020, 43, 1.	0.8	14
59	Real-time monitoring of heat transfer between gold nanoparticles and tethered bilayer lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183334.	1.4	4
60	Capturing the Swirling Vortex and the Impact of Ventilation Conditions on Small-Scale Fire Whirls. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3428.	1.3	5
61	Simulation and Experimental Investigation on Carbonized Tracking Failure of EPDM/BN-Based Electrical Insulation. <i>Polymers</i> , 2020, 12, 582.	2.0	13
62	Characterization of choking flow behaviors inside steam ejectors based on the ejector refrigeration system. <i>International Journal of Refrigeration</i> , 2020, 113, 296-307.	1.8	26
63	Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. <i>Composites Part B: Engineering</i> , 2020, 188, 107875.	5.9	111
64	Numerical Study of the Comparison of Symmetrical and Asymmetrical Eddy-Generation Scheme on the Fire Whirl Formulation and Evolution. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 318.	1.3	6
65	In Memoriam - Graham de Vahl Davis. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119486.	2.5	0
66	Investigation of door width towards flame tilting behaviours and combustion species in compartment fire scenarios using large eddy simulation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 150, 119373.	2.5	18
67	PDMS/MWCNT nanocomposite films for underwater sound absorption applications. <i>Journal of Materials Science</i> , 2020, 55, 5048-5063.	1.7	27
68	Numerical Study of Surface Regression of a Flame Retarded Expandable Polystyrene. <i>Lecture Notes in Civil Engineering</i> , 2020, , 149-158.	0.3	1
69	Nanoparticles of polydopamine for improving mechanical and flame-retardant properties of an epoxy resin. <i>Composites Part B: Engineering</i> , 2020, 186, 107828.	5.9	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. <i>Journal of Visualized Experiments</i> , 2020, , .	0.2	3
72	Effect of micro-nano additives on breakdown, surface tracking and mechanical performance of ethylene propylene diene monomer for high voltage insulation. <i>Journal of Materials Science: Materials in Electronics</i> , 2019, 30, 14061-14071.	1.1	19

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73	Flame-Wall Interaction Effects on Diesel Post-injection Combustion and Soot Formation Processes. <i>Energy &amp; Fuels</i> , 2019, 33, 7759-7769.	2.5	20
74	A Steam Ejector Refrigeration System Powered by Engine Combustion Waste Heat: Part 1. Characterization of the Internal Flow Structure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4275.	1.3	5
75	Modeling the Response of Magnetorheological Fluid Dampers under Seismic Conditions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4189.	1.3	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. <i>Fuel</i> , 2019, 255, 115726.	3.4	28
78	An investigation on thermal performance of wollastonite and bentonite reinforced intumescent fire-retardant coating for steel structures. <i>Construction and Building Materials</i> , 2019, 228, 116734.	3.2	31
79	A review on the development of nuclear power reactors. <i>Energy Procedia</i> , 2019, 160, 459-466.	1.8	54
80	Influence of Eddy-Generation Mechanism on the Characteristic of On-Source Fire Whirl. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3989.	1.3	11
81	Application of LED-based thermographic phosphorescent technique to diesel combustion chamber walls in a pre-burn-type optical constant-volume vessel. <i>Experiments in Fluids</i> , 2019, 60, 1.	1.1	8
82	Functionalization of MXene Nanosheets for Polystyrene towards High Thermal Stability and Flame Retardant Properties. <i>Polymers</i> , 2019, 11, 976.	2.0	93
83	Recent progress in bio-based aerogel absorbents for oil/water separation. <i>Cellulose</i> , 2019, 26, 6449-6476.	2.4	102
84	Special Issue on Nanofluids and Their Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1476.	1.3	0
85	Computational Study of Wet Steam Flow to Optimize Steam Ejector Efficiency for Potential Fire Suppression Application. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1486.	1.3	18
86	Natural Ventilated Smoke Control Simulation Case Study Using Different Settings of Smoke Vents and Curtains in a Large Atrium. <i>Fire</i> , 2019, 2, 7.	1.2	20
87	Fire Risk Assessment of Combustible Exterior Cladding Using a Collective Numerical Database. <i>Fire</i> , 2019, 2, 11.	1.2	44
88	Sensitivity Analysis of Key Parameters for Population Balance Based Soot Model for Low-Speed Diffusion Flames. <i>Energies</i> , 2019, 12, 910.	1.6	8
89	Thermal hydraulic considerations of nuclear reactor systems: Past, present and future challenges. <i>Experimental and Computational Multiphase Flow</i> , 2019, 1, 3-27.	1.9	62
90	Effects of radiation on turbulent natural convection in channel flows. <i>International Journal of Heat and Fluid Flow</i> , 2019, 77, 122-133.	1.1	9

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91	Interface decoration of exfoliated MXene ultra-thin nanosheets for fire and smoke suppressions of thermoplastic polyurethane elastomer. <i>Journal of Hazardous Materials</i> , 2019, 374, 110-119.	6.5	301
92	Pectin-assisted dispersion of exfoliated boron nitride nanosheets for assembled bio-composite aerogels. <i>Composites Part A: Applied Science and Manufacturing</i> , 2019, 119, 196-205.	3.8	29
93	“Slower is Faster” by Considering of Give-way Evacuation Behavior. , 2019, , .		1
94	A Review of Hydrogen Direct Injection for Internal Combustion Engines: Towards Carbon-Free Combustion. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4842.	1.3	204
95	A Steam Ejector Refrigeration System Powered by Engine Combustion Waste Heat: Part 2. Understanding the Nature of the Shock Wave Structure. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4435.	1.3	7
96	Impact characteristics and stagnation formation on a solid surface by a supersonic abrasive waterjet. <i>International Journal of Extreme Manufacturing</i> , 2019, 1, 045004.	6.3	6
97	Color-ratio pyrometry methods for flame “wall impingement study. <i>Journal of the Energy Institute</i> , 2019, 92, 1968-1976.	2.7	18
98	Numerical investigation on the bubble size distribution around NACA0015 hydrofoil. <i>Ocean Engineering</i> , 2019, 172, 59-71.	1.9	5
99	Gravity-Driven Bubble Rise Simulation. , 2019, , 1-37.		1
100	Australian Journal of Mechanical Engineering. <i>Australian Journal of Mechanical Engineering</i> , 2018, 16, 1-1.	1.5	0
101	Flooding prediction of counter-current flow in a vertical tube with non-axisymmetric disturbance waves. <i>Annals of Nuclear Energy</i> , 2018, 114, 616-623.	0.9	0
102	Bubble flow simulations using the intersection marker (ISM) interface tracking method. <i>International Journal of Numerical Methods for Heat and Fluid Flow</i> , 2018, 28, 118-137.	1.6	8
103	Numerical study of the development and angular speed of a small-scale fire whirl. <i>Journal of Computational Science</i> , 2018, 27, 21-34.	1.5	30
104	Manufacturing, mechanical and flame retardant properties of poly(lactic acid) biocomposites based on calcium magnesium phytate and carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2018, 110, 227-236.	3.8	136
105	Combustion characterization of waste cooking oil and canola oil based biodiesels under simulated engine conditions. <i>Fuel</i> , 2018, 224, 167-177.	3.4	44
106	Effect of after injections on late cycle soot oxidation in a small-bore diesel engine. <i>Combustion and Flame</i> , 2018, 191, 513-526.	2.8	25
107	A CFD-based comparative analysis of drying in various single biomass particles. <i>Applied Thermal Engineering</i> , 2018, 128, 1062-1073.	3.0	17
108	Numerical study of fire spread using the level-set method with large eddy simulation incorporating detailed chemical kinetics gas-phase combustion model. <i>Journal of Computational Science</i> , 2018, 24, 8-23.	1.5	33



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109	A study of the micro-hole geometry evolution on glass by abrasive air-jet micromachining. <i>Journal of Manufacturing Processes</i> , 2018, 31, 156-161.	2.8	28
110	Surface Manipulation of Thermal-Exfoliated Hexagonal Boron Nitride with Polyaniline for Improving Thermal Stability and Fire Safety Performance of Polymeric Materials. <i>ACS Omega</i> , 2018, 3, 14942-14952.	1.6	37
111	CFD investigation of sub-cooled boiling flow using a mechanistic wall heat partitioning approach with Wet-Steam properties. <i>Journal of Computational Multiphase Flows</i> , 2018, 10, 239-258.	0.8	3
112	Novel 3D Network Architected Hybrid Aerogel Comprising Epoxy, Graphene, and Hydroxylated Boron Nitride Nanosheets. <i>ACS Applied Materials &amp; Interfaces</i> , 2018, 10, 40032-40043.	4.0	45
113	Establishing pyrolysis kinetics for the modelling of the flammability and burning characteristics of solid combustible materials. <i>Journal of Fire Sciences</i> , 2018, 36, 494-517.	0.9	39
114	Synthesis of anhydrous manganese hypophosphite microtubes for simultaneous flame retardant and mechanical enhancement on poly(lactic acid). <i>Composites Science and Technology</i> , 2018, 164, 44-50.	3.8	47
115	Study of Morphology and Optical Properties of Gold Nanoparticle Aggregates under Different pH Conditions. <i>Langmuir</i> , 2018, 34, 10340-10352.	1.6	14
116	Predicting the fire spread rate of a sloped pine needle board utilizing pyrolysis modelling with detailed gas-phase combustion. <i>International Journal of Heat and Mass Transfer</i> , 2018, 125, 310-322.	2.5	36
117	Comparative Studies on Thermal, Mechanical, and Flame Retardant Properties of PBT Nanocomposites via Different Oxidation State Phosphorus-Containing Agents Modified Amino-CNTs. <i>Nanomaterials</i> , 2018, 8, 70.	1.9	26
118	Spray and Combustion Investigation of Post Injections under Low-Temperature Combustion Conditions with Biodiesel. <i>Energy &amp; Fuels</i> , 2018, 32, 8727-8742.	2.5	31
119	Perturbation scheme for estimating uncertainties in thermal scattering cross sections of water. <i>Annals of Nuclear Energy</i> , 2018, 121, 232-249.	0.9	4
120	The Effect of Gold Nanorods Clustering on Near-Infrared Radiation Absorption. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1132.	1.3	21
121	Methodologies for Processing Fixed Bed Combustor Data. <i>Combustion Science and Technology</i> , 2017, 189, 79-102.	1.2	9
122	Influence of turbulent fluctuations on radiation heat transfer, NO and soot formation under ECN Spray A conditions. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3551-3558.	2.4	26
123	Modeling combustion under engine combustion network Spray A conditions with multiple injections using the transported probability density function method. <i>International Journal of Engine Research</i> , 2017, 18, 6-14.	1.4	26
124	Numerical Modeling of Magnetic Nanoparticle and Carrier Fluid Interactions Under Static and Double-Shear Flows. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 798-805.	1.1	12
125	Air staging strategies in biomass combustion-gaseous and particulate emission reduction potentials. <i>Fuel Processing Technology</i> , 2017, 157, 29-41.	3.7	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). <i>Chemical Engineering Journal</i> , 2017, 321, 257-267.	6.6	71



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127	Investigation of the Influence of Elevated Pressure on Subcooled Boiling Flow – Model Evaluation Toward Generic Approach. <i>Journal of Heat Transfer</i> , 2017, 139, .	1.2	4
128	Comparison of detailed soot formation models for sooty and non-sooty flames in an under-ventilated ISO room. <i>International Journal of Heat and Mass Transfer</i> , 2017, 115, 717-729.	2.5	39
129	Australian Journal of Mechanical Engineering. <i>Australian Journal of Mechanical Engineering</i> , 2017, 15, 73-73.	1.5	0
130	On the influences of key modelling constants of large eddy simulations for large-scale compartment fires predictions. <i>International Journal of Computational Fluid Dynamics</i> , 2017, 31, 324-337.	0.5	32
131	Editorial – Australian Journal of Mechanical Engineering. <i>Australian Journal of Mechanical Engineering</i> , 2017, 15, 1-1.	1.5	1
132	Numerical investigation of formation and dissolution of CO <sub>2</sub> bubbles within silicone oil in a cross-junction microchannel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	1.0	10
133	Numerical investigation on the performance of coalescence and break-up kernels in subcooled boiling flows in vertical channels. <i>Journal of Computational Multiphase Flows</i> , 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. <i>International Journal of Heat and Mass Transfer</i> , 2017, 113, 922-934.	2.5	13
135	Study on flame retarded flexible polyurethane foam/alumina aerogel composites with improved fire safety. <i>Chemical Engineering Journal</i> , 2017, 311, 310-317.	6.6	82
136	Emissions characteristics of NO <sub>x</sub> and SO <sub>2</sub> in the combustion of microalgae biomass using a tube furnace. <i>Journal of the Energy Institute</i> , 2017, 90, 806-812.	2.7	28
137	Effect of jet-jet interactions on soot formation in a small-bore diesel engine. <i>Proceedings of the Combustion Institute</i> , 2017, 36, 3559-3566.	2.4	20
138	An experimental study into the effect of air staging distribution and position on emissions in a laboratory scale biomass combustor. <i>Energy</i> , 2017, 118, 1243-1255.	4.5	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. <i>Science and Technology of Nuclear Installations</i> , 2016, 2016, 1-11.	0.3	1
141	Is comparison with experimental data a reasonable method of validating computational models?. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032022.	0.3	2
142	The intersection marker method for 3D interface tracking of deformable surfaces in finite volumes. <i>International Journal for Numerical Methods in Fluids</i> , 2016, 81, 220-244.	0.9	9
143	Computational fluid dynamics and population balance modelling of nucleate boiling of cryogenic liquids: Theoretical developments. <i>Journal of Computational Multiphase Flows</i> , 2016, 8, 178-200.	0.8	8
144	Numerical modelling of magnetic nanoparticle and carrier fluid interactions. , 2016, , .		3

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145	An algorithm to calculate interfacial area for multiphase mass transfer through the volume-of-fluid method. <i>International Journal of Heat and Mass Transfer</i> , 2016, 100, 573-581.	2.5	50
146	Thermal-hydraulic modelling of the Cold Neutron Source thermosiphon system. <i>Annals of Nuclear Energy</i> , 2016, 90, 135-147.	0.9	5
147	Effect of intake air temperature and common-rail pressure on ethanol combustion in a single-cylinder light-duty diesel engine. <i>Fuel</i> , 2016, 180, 9-19.	3.4	44
148	Study of three LES subgrid-scale turbulence models for predictions of heat and mass transfer in large-scale compartment fires. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 69, 1223-1241.	1.2	28
149	Automated determination of size and morphology information from soot transmission electron microscope (TEM)-generated images. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	0.8	30
150	High order accurate dual-phase-lag numerical model for microscopic heating in multiple domains. <i>International Communications in Heat and Mass Transfer</i> , 2016, 78, 21-28.	2.9	5
151	Improved volume-of-fluid (VOF) model for predictions of velocity fields and droplet lengths in microchannels. <i>Flow Measurement and Instrumentation</i> , 2016, 51, 105-115.	1.0	23
152	A rapid co-culture stamping device for studying intercellular communication. <i>Scientific Reports</i> , 2016, 6, 35618.	1.6	12
153	Effect of heat loss on turbulent buoyancy-driven flow in a rectangular cavity using the large-eddy simulation. <i>Numerical Heat Transfer; Part A: Applications</i> , 2016, 70, 689-706.	1.2	5
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