

# Guan Heng Yeoh

## List of Publications by Year in descending order

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325  
papers

8,672  
citations

53202

45  
h-index

83414

72  
g-index

334  
all docs

334  
docs citations

334  
times ranked

7469  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Novel Movable Mannequin Platform for Evaluating and Optimising mmWave Radar Sensor for Indoor Crowd Evacuation Monitoring Applications. <i>Fire</i> , 2024, 7, 181.	2.9	0
2	Impact of the Local Dynamics on Exit Choice Behaviour in Evacuation Model. <i>Fire</i> , 2024, 7, 167.	2.9	0
3	Natural Flame Retardant Minerals for Advanced Epoxy Composites. <i>Fire</i> , 2024, 7, 308.	2.9	0
4	MXene Based Flame Retardant and Electrically Conductive Polymer Coatings. <i>Polymers</i> , 2024, 16, 2461.	4.6	0
5	Investigating Intumescent Flame-Retardant Additives in Polyurethane Foam to Improve the Flame Resistance and Sustainability of Aircraft Cabin Materials. <i>Fire</i> , 2024, 7, 351.	2.9	0
6	Numerical modeling of wet steam infused fluid mixture for potential fire suppression applications. <i>Experimental and Computational Multiphase Flow</i> , 2023, 5, 142-148.	3.7	3
7	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.	3.7	7
8	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.	2.8	2
9	Soot: A review of computational models at different length scales. <i>Experimental and Computational Multiphase Flow</i> , 2023, 5, 1-14.	3.7	3
10	Application of multi-parametric characterization to water-based fire suppression systems in compartment fire scenarios. <i>Numerical Heat Transfer; Part A: Applications</i> , 2023, 83, 1111-1129.	2.1	7
11	Optimisation of Additives to Maximise Performance of Expandable Graphite-Based Intumescent-Flame-Retardant Polyurethane Composites. <i>Molecules</i> , 2023, 28, 5100.	3.9	3
12	Numerical investigation of expandable graphite suppression on metal-based fire. <i>Heat and Mass Transfer</i> , 2022, 58, 65-81.	2.1	9
13	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.	3.7	15
14	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, .	1.6	3
15	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.	3.9	5
16	Temporal and specific pathways of change in cognitive behavioral therapy (CBT) and interpersonal psychotherapy (IPT) for depression. <i>Behaviour Research and Therapy</i> , 2022, 151, 104010.	3.3	10
17	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.	5.4	9
18	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.	6.4	16

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19	Three-dimensional numerical simulation of air-flow in inkjet print-zones. <i>International Journal of Heat and Fluid Flow</i> , 2022, 93, 108911.	2.4	4
20	Laser ignition of iso-octane and n-heptane jets under compression-ignition conditions. <i>Fuel</i> , 2022, 311, 122555.	6.6	5
21	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.	4.9	8
22	An Investigation towards Coupling Molecular Dynamics with Computational Fluid Dynamics for Modelling Polymer Pyrolysis. <i>Molecules</i> , 2022, 27, 292.	3.9	14
23	Structure evolution of nanodiamond aggregates: a SANS and USANS study. <i>Journal of Applied Crystallography</i> , 2022, 55, 353-361.	4.9	3
24	Fire-retarded nanocomposite aerogels for multifunctional applications: A review. <i>Composites Part B: Engineering</i> , 2022, 237, 109866.	12.1	41
25	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.	5.6	14
26	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.	5.6	13
27	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.	13.0	30
28	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.	5.9	5
29	Atomistic characterisation of graphite oxidation and thermal decomposition mechanism under isothermal and Non-Isothermal heating scheme. <i>Computational Materials Science</i> , 2022, 210, 111458.	3.1	3
30	A parametric study of autoigniting hydrogen jets under compression-ignition engine conditions. <i>International Journal of Hydrogen Energy</i> , 2022, 47, 21307-21322.	7.2	10
31	Integration of Computational Fluid Dynamics and Artificial Neural Network for Optimization Design of Battery Thermal Management System. <i>Batteries</i> , 2022, 8, 69.	4.6	36
32	Numerical investigation on the thermal management of lithium-ion battery system and cooling effect optimization. <i>Applied Thermal Engineering</i> , 2022, 215, 118966.	6.1	31
33	Thermal Hazard and Smoke Toxicity Assessment of Building Polymers Incorporating TGA and FTIR-Integrated Cone Calorimeter Arrangement. <i>Fire</i> , 2022, 5, 139.	2.9	7
34	In-Depth Assessment of Cross-Passage Critical Velocity for Smoke Control in Large-Scale Railway Tunnel Fires. <i>Fire</i> , 2022, 5, 140.	2.9	3
35	On the Large Eddy Simulation Modelling of Water Suppression Systems Droplet Impact and Coverage Area. <i>Fire</i> , 2022, 5, 165.	2.9	4
36	<i>Garcinia siripatanadilokii</i> (Clusiaceae), a new species from Peninsular Thailand. <i>Kew Bulletin</i> , 2022, 77, 905-913.	0.9	2

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37	Thermal Propagation Modelling of Abnormal Heat Generation in Various Battery Cell Locations. Batteries, 2022, 8, 216.	4.6	8
38	Engineering MXene surface with POSS for reducing fire hazards of polystyrene with enhanced thermal stability. Journal of Hazardous Materials, 2021, 401, 123342.	12.6	163
39	Alginate/Polymer-Based Materials for Fire Retardancy: Synthesis, Structure, Properties, and Applications. Polymer Reviews, 2021, 61, 357-414.	11.3	43
40	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.	5.6	28
41	Improved flame-retardant properties of polydimethylsiloxane/multi-walled carbon nanotube nanocomposites. Journal of Materials Science, 2021, 56, 2192-2211.	3.7	18
42	Underwater sound absorption properties of polydimethylsiloxane/carbon nanotube composites with steel plate backing. Applied Acoustics, 2021, 171, 107668.	3.4	31
43	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.	7.2	68
44	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
45	Experimental and numerical perspective on the fire performance of MXene/Chitosan/Phytic acid coated flexible polyurethane foam. Scientific Reports, 2021, 11, 4684.	3.4	29
46	Heat Generation in Irradiated Gold Nanoparticle Solutions for Hyperthermia Applications. Processes, 2021, 9, 368.	2.8	4
47	Differing effects of size and lifestyle on bone structure in mammals. BMC Biology, 2021, 19, 87.	3.9	21
48	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	31
49	A review on polymer-based materials for underwater sound absorption. Polymer Testing, 2021, 96, 107115.	5.0	77
50	Development of an evacuation model considering the impact of stress variation on evacuees under fire emergency. Safety Science, 2021, 138, 105232.	5.0	26
51	Effects of expandable graphite on char morphology and pyrolysis of epoxy based intumescent <sc>fire-retardant</sc> coating. Journal of Applied Polymer Science, 2021, 138, 51206.	2.7	9
52	Fire-Resistant Flexible Polyurethane Foams via Nature-Inspired Chitosan-Expandable Graphite Coatings. ACS Applied Polymer Materials, 2021, 3, 4079-4087.	4.5	26
53	Wet or dry multifunctional coating prepared by visible light polymerisation with fire retardant, thermal protective, and antimicrobial properties. Cellulose, 2021, 28, 8821-8840.	5.1	6
54	Study of structure morphology and layer thickness of Ti3C2 MXene with Small-Angle Neutron Scattering (SANS). Composites Part C: Open Access, 2021, 5, 100155.	3.3	20

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55	Flame Retardancy and Excellent Electrical Insulation Performance of RTV Silicone Rubber. <i>Polymers</i> , 2021, 13, 2854.	4.6	16
56	BODIPY coated on MXene nanosheets for improving mechanical and fire safety properties of ABS resin. <i>Composites Part B: Engineering</i> , 2021, 223, 109130.	12.1	77
57	Ignition and flame stabilisation of primary reference fuel sprays at engine-relevant conditions. <i>Combustion and Flame</i> , 2021, 233, 111620.	5.3	13
58	A Review on Lithium-Ion Battery Separators towards Enhanced Safety Performances and Modelling Approaches. <i>Molecules</i> , 2021, 26, 478.	3.9	59
59	Peanut Shell Derived Carbon Combined with Nano Cobalt: An Effective Flame Retardant for Epoxy Resin. <i>Molecules</i> , 2021, 26, 6662.	3.9	8
60	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.	2.1	9
61	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.	5.5	16
62	3-Way coupled thermohydraulic-discrete element-neutronic simulation of solid fuel, molten salt reactor. <i>Annals of Nuclear Energy</i> , 2020, 135, 106973.	1.8	4
63	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.	3.7	16
64	MXene/chitosan nanocoating for flexible polyurethane foam towards remarkable fire hazards reductions. <i>Journal of Hazardous Materials</i> , 2020, 381, 120952.	12.6	182
65	Critical assessment on operating water droplet sizes for fire sprinkler and water mist systems. <i>Journal of Building Engineering</i> , 2020, 28, 100999.	3.5	27
66	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.	12.1	56
67	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.	5.2	11
68	Spray and Combustion Characteristics of Gasoline-like Fuel under Compression-Ignition Conditions. <i>Energy &amp; Fuels</i> , 2020, 34, 16585-16598.	5.2	7
69	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.	7.2	35
70	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.	1.7	16
71	Real-time monitoring of heat transfer between gold nanoparticles and tethered bilayer lipid membranes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020, 1862, 183334.	2.7	6
72	Capturing the Swirling Vortex and the Impact of Ventilation Conditions on Small-Scale Fire Whirls. <i>Applied Sciences (Switzerland)</i> , 2020, 10, 3428.	2.6	5

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73	Simulation and Experimental Investigation on Carbonized Tracking Failure of EPDM/BN-Based Electrical Insulation. <i>Polymers</i> , 2020, 12, 582.	4.6	14
74	Characterization of choking flow behaviors inside steam ejectors based on the ejector refrigeration system. <i>International Journal of Refrigeration</i> , 2020, 113, 296-307.	3.6	30
75	Multifunctional MXene/natural rubber composite films with exceptional flexibility and durability. <i>Composites Part B: Engineering</i> , 2020, 188, 107875.	12.1	127
76	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.	2.6	6
77	In Memoriam - Graham de Vahl Davis. <i>International Journal of Heat and Mass Transfer</i> , 2020, 152, 119486.	4.9	0
78	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.	4.9	19
79	PDMS/MWCNT nanocomposite films for underwater sound absorption applications. <i>Journal of Materials Science</i> , 2020, 55, 5048-5063.	3.7	29
80	Discovery, Optimization, and Characterization of ML417: A Novel and Highly Selective D <sub>3</sub> Dopamine Receptor Agonist. <i>Journal of Medicinal Chemistry</i> , 2020, 63, 5526-5567.	6.6	17
81	Numerical Study of Surface Regression of a Flame Retarded Expandable Polystyrene. <i>Lecture Notes in Civil Engineering</i> , 2020, , 149-158.	0.0	1
82	Nanoparticles of polydopamine for improving mechanical and flame-retardant properties of an epoxy resin. <i>Composites Part B: Engineering</i> , 2020, 186, 107828.	12.1	75
83	Electrical Field Modeling and Tracking Performance of RTV Silicone Rubber Composite Insulation. , 2020, , .		0
84	Tethered Bilayer Lipid Membranes to Monitor Heat Transfer between Gold Nanoparticles and Lipid Membranes. <i>Journal of Visualized Experiments</i> , 2020, , .	0.3	3
85	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.	2.2	21
86	Flame-Wall Interaction Effects on Diesel Post-injection Combustion and Soot Formation Processes. <i>Energy &amp; Fuels</i> , 2019, 33, 7759-7769.	5.2	21
87	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.	2.6	5
88	Modeling the Response of Magnetorheological Fluid Dampers under Seismic Conditions. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4189.	2.6	16
89	Investigation on Dry Band Arcing Induced Tracking Failure on Nanocomposites of EPDM Matrix. , 2019, , .		4
90	Effects of flame-plane wall impingement on diesel combustion and soot processes. <i>Fuel</i> , 2019, 255, 115726.	6.6	30

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91	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.	7.2	33
92	A review on the development of nuclear power reactors. <i>Energy Procedia</i> , 2019, 160, 459-466.	1.8	69
93	Influence of Eddy-Generation Mechanism on the Characteristic of On-Source Fire Whirl. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 3989.	2.6	11
94	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.	2.3	8
95	Functionalization of MXene Nanosheets for Polystyrene towards High Thermal Stability and Flame Retardant Properties. <i>Polymers</i> , 2019, 11, 976.	4.6	104
96	Recent progress in bio-based aerogel absorbents for oil/water separation. <i>Cellulose</i> , 2019, 26, 6449-6476.	5.1	109
97	Special Issue on Nanofluids and Their Applications. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1476.	2.6	0
98	Computational Study of Wet Steam Flow to Optimize Steam Ejector Efficiency for Potential Fire Suppression Application. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 1486.	2.6	19
99	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.	2.9	21
100	Fire Risk Assessment of Combustible Exterior Cladding Using a Collective Numerical Database. <i>Fire</i> , 2019, 2, 11.	2.9	47
101	Sensitivity Analysis of Key Parameters for Population Balance Based Soot Model for Low-Speed Diffusion Flames. <i>Energies</i> , 2019, 12, 910.	3.2	8
102	Thermal hydraulic considerations of nuclear reactor systems: Past, present and future challenges. <i>Experimental and Computational Multiphase Flow</i> , 2019, 1, 3-27.	3.7	66
103	Effects of radiation on turbulent natural convection in channel flows. <i>International Journal of Heat and Fluid Flow</i> , 2019, 77, 122-133.	2.4	9
104	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.	12.6	329
105	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.	7.8	32
106	“Slower is Faster” by Considering of Give-way Evacuation Behavior. , 2019, , .		1
107	A Review of Hydrogen Direct Injection for Internal Combustion Engines: Towards Carbon-Free Combustion. <i>Applied Sciences (Switzerland)</i> , 2019, 9, 4842.	2.6	248
108	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.	2.6	7

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109	Impact characteristics and stagnation formation on a solid surface by a supersonic abrasive waterjet. International Journal of Extreme Manufacturing, 2019, 1, 045004.	12.8	7
110	Color-ratio pyrometry methods for flame-wall impingement study. Journal of the Energy Institute, 2019, 92, 1968-1976.	5.5	18
111	Numerical investigation on the bubble size distribution around NACA0015 hydrofoil. Ocean Engineering, 2019, 172, 59-71.	4.4	5
112	Gravity-Driven Bubble Rise Simulation. , 2019, , 1-37.		1
113	Australian Journal of Mechanical Engineering. Australian Journal of Mechanical Engineering, 2018, 16, 1-1.	2.1	0
114	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
115	Modern management of esophageal achalasia: From pathophysiology to treatment. Current Problems in Surgery, 2018, 55, 10-37.	1.5	23
116	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.	3.0	8
117	Numerical study of the development and angular speed of a small-scale fire whirl. Journal of Computational Science, 2018, 27, 21-34.	3.0	30
118	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.	7.8	142
119	Combustion characterization of waste cooking oil and canola oil based biodiesels under simulated engine conditions. Fuel, 2018, 224, 167-177.	6.6	46
120	A CFD-based comparative analysis of drying in various single biomass particles. Applied Thermal Engineering, 2018, 128, 1062-1073.	6.1	18
121	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.	3.0	33
122	A study of the micro-hole geometry evolution on glass by abrasive air-jet micromachining. Journal of Manufacturing Processes, 2018, 31, 156-161.	6.0	29
123	Test on mechanical capability of steel fiber reinforced cement-base composites. IOP Conference Series: Materials Science and Engineering, 2018, 423, 012014.	0.6	0
124	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	4
125	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
126	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.	8.0	51



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127	Study of Morphology and Optical Properties of Gold Nanoparticle Aggregates under Different pH Conditions. <i>Langmuir</i> , 2018, 34, 10340-10352.	3.7	14
128	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.	4.9	36
129	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.	4.2	27
130	Spray and Combustion Investigation of Post Injections under Low-Temperature Combustion Conditions with Biodiesel. <i>Energy &amp; Fuels</i> , 2018, 32, 8727-8742.	5.2	32
131	Perturbation scheme for estimating uncertainties in thermal scattering cross sections of water. <i>Annals of Nuclear Energy</i> , 2018, 121, 232-249.	1.8	5
132	The Effect of Gold Nanorods Clustering on Near-Infrared Radiation Absorption. <i>Applied Sciences (Switzerland)</i> , 2018, 8, 1132.	2.6	23
133	Methodologies for Processing Fixed Bed Combustor Data. <i>Combustion Science and Technology</i> , 2017, 189, 79-102.	2.1	9
134	Numerical Modeling of Magnetic Nanoparticle and Carrier Fluid Interactions Under Static and Double-Shear Flows. <i>IEEE Nanotechnology Magazine</i> , 2017, 16, 798-805.	2.2	12
135	Air staging strategies in biomass combustion-gaseous and particulate emission reduction potentials. <i>Fuel Processing Technology</i> , 2017, 157, 29-41.	7.3	52
136	Investigation of the Influence of Elevated Pressure on Subcooled Boiling Flow Model Evaluation Toward Generic Approach. <i>Journal of Heat Transfer</i> , 2017, 139, .	2.3	4
137	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.	4.9	39
138	Australian Journal of Mechanical Engineering. <i>Australian Journal of Mechanical Engineering</i> , 2017, 15, 73-73.	2.1	0
139	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.	1.3	32
140	Editorial " Australian Journal of Mechanical Engineering. <i>Australian Journal of Mechanical Engineering</i> , 2017, 15, 1-1.	2.1	1
141	Numerical investigation of formation and dissolution of CO2 bubbles within silicone oil in a cross-junction microchannel. <i>Microfluidics and Nanofluidics</i> , 2017, 21, 1.	2.2	10
142	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
143	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.	4.9	15
144	Study on flame retarded flexible polyurethane foam/alumina aerogel composites with improved fire safety. <i>Chemical Engineering Journal</i> , 2017, 311, 310-317.	13.0	87

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145	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.	5.5	30
146	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.	9.0	31
147	Heat Generation in Gold Nanorods Solutions due to Absorption of Near-Infrared Radiation. , 2017, , .		3
148	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.	0.8	1
149	Is comparison with experimental data a reasonable method of validating computational models?. <i>Journal of Physics: Conference Series</i> , 2016, 745, 032022.	0.4	2
150	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.	1.7	9
151	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
152	Numerical modelling of magnetic nanoparticle and carrier fluid interactions. , 2016, , .		4
153	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.	4.9	51
154	Thermal-hydraulic modelling of the Cold Neutron Source thermosiphon system. <i>Annals of Nuclear Energy</i> , 2016, 90, 135-147.	1.8	6
155	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.	2.1	28
156	Automated determination of size and morphology information from soot transmission electron microscope (TEM)-generated images. <i>Journal of Nanoparticle Research</i> , 2016, 18, 1.	2.0	30
157	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.	5.7	5
158	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.	2.1	23
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